



Search  for

Display

1 : O65607 . DNA MISMATCH REPAIR...[gi:3914062]

Related Sequences

LOCUS MSH3\_ARATH 1076 aa PLN 15-DEC-1998  
 DEFINITION DNA MISMATCH REPAIR PROTEIN MSH3.  
 ACCESSION O65607  
 PID g3914062  
 VERSION O65607 GI:3914062  
 DBSOURCE swissprot: locus MSH3\_ARATH, accession O65607;  
 class: standard.  
 created: Dec 15, 1998.  
 sequence updated: Dec 15, 1998.  
 annotation updated: Dec 15, 1998.  
 xrefs: gi: 5596409, gi: 2980796  
 xrefs (non-sequence databases): PFAM PF00488  
 KEYWORDS DNA repair; ATP-binding; DNA-binding.  
 SOURCE thale cress.  
 ORGANISM Arabidopsis thaliana  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophy  
 euphyllphytes; Spermatophyta; Magnoliophyta; eudicotyledons; c  
 eudicots; Rosidae; eurosids II; Brassicales; Brassicaceae;  
 Arabidopsis.  
 REFERENCE 1 (residues 1 to 1076)  
 AUTHORS BEVAN,M., BARGUES,M., PEREZ-PEREZ,A., TEROL,J., TORRES,A.,  
 PEREZ-ALONSO,M., HOHEISEL,J., MEWES,H.-W., MAYER,K. and  
 SCHUELLER,C.  
 TITLE Direct Submission  
 JOURNAL Submitted (??-MAR-1998) to the EMBL/GenBank/DDBJ databases  
 REMARK SEQUENCE FROM N.A.  
 STRAIN=CV. COLUMBIA

COMMENT -----  
 This SWISS-PROT entry is copyright. It is produced through a  
 collaboration between the Swiss Institute of Bioinformatics and  
 the EMBL outstation - the European Bioinformatics Institute.  
 The original entry is available from <http://www.expasy.ch/sprot>  
 and <http://www.ebi.ac.uk/sprot>  
 -----

[FUNCTION] NOT KNOWN. PROBABLE DNA-REPAIR PROTEIN.  
 [SIMILARITY] BELONGS TO DNA MISMATCH REPAIR MUTS FAMILY.

FEATURES Location/Qualifiers  
 source 1..1076  
 /organism="Arabidopsis thaliana"  
 /db\_xref="taxon:3702"  
 Protein 1..1076  
 /product="DNA MISMATCH REPAIR PROTEIN MSH3"  
 Site 830..837  
 /site\_type="np-binding"  
 /note="ATP (POTENTIAL)."  
 ORIGIN

```
1 mgkqkqqtis rffapkpksp thepnpvaes stpppkisat vsfspskrk1 lsdhlaaasp
61 kkpklsphtq npvpdpnlhq rflqrfleps peeyvpets srkytpleqq vvelkskypd
121 vvlmvevgyr yrffgedaei aarvlgiyah mdhnfmtary kigvvkqtet aaikshganr
181 tgpffrglsa lytkatleaa edisggcgge egfgsqsnfl vcvvdervks etlgcgiems
241 fdvrvgvvgv eistgevvye efndnfmrsq leavilslsp aelllgqpls qqtekflvah
301 agptsnvrv rasldcfsng navdevislc ekisagnled dkemkleaae kgmscltvht
361 immphltvq alaltfchlq qfgferilyq gasfrslssn temtlsantl qqlevvkns
421 dgsgsgslfh nmnhltlvgy srlrlhwvth plcdrnlisa rldavseisa cmgshsssq1
481 sselveegse raivspefyl vlssvltams rssdiqrgit rifhrtakat evkiwplvcp
541 lmyvpvsssp glrvlnflde kfiavmeail lagkqiqlrg ikqdsemrsm qsatvrstll
601 rkliisviss vvvdnagkl1 salnkeaavr gdldilits sdqfpelaea rqavlvirek
661 ldssiasfrk klairnlefl qvsgithlie lpvdskvpmn wkvvnstkk1 iryhpeiva
721 glde1alate hlaivnrsw dsflksfsry ytdfkaavqa laaldclhsl stlsrnknyv
781 rpefvddcep veiniqgrh pvletilqdn fvpndtilha egeycqitg pnmggkscyi
841 rqvalisima qvgsfvpasf aklhvldgvf trmgasdsiq hgrstfleel nelgrgtsth
901 dgvaiaiatl qhllaekrcl vlfvthypei aeisngfpgs vgtyhvsylt lqkdkgsydh
961 ddvtylyklv rg1csrsfgf kvaqlaqipp scirraisma akleaevrar erntrmgepe
1021 gheeprgaee sisalgdlfa dlkfalsed pwkafeflkh awkiagkirl kptcsf
```

//

---

Display	GenPept	Save	Text	Add to Clipboard
---------	---------	------	------	------------------

Revised: January 10, 2000.

[Disclaimer](#) | [Write to the Help Desk](#)  
[NCBI](#) | [NLM](#) | [NIH](#)

ID ATM7J2 standard; DNA; PLN; 80386 BP.  
 XX  
 AC AL022197;  
 XX  
 SV AL022197.2  
 XX  
 DT 18-MAR-1998 (Rel. 55, Created)  
 DT 23-JUL-1999 (Rel. 60, Last updated, Version 5)  
 XX  
 DE Arabidopsis thaliana DNA chromosome 4, P1 clone M7J2 (ESSA project)  
 XX  
 KW .  
 XX  
 OS Arabidopsis thaliana (thale cress)  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC euphyllophytes; Spermatophyta; Magnoliophyta; eudicotyledons;  
 OC core eudicots; Rosidae; eurosids II; Brassicales; Brassicaceae;  
 OC Arabidopsis.  
 XX  
 RN [1]  
 RA Bevan M., Bargues M., Perez-Perez A., Terol J., Torres A., Perez-Alonso M.,  
 RA Hoheisel J., Mewes H.W., Mayer K.F.X., Lemcke K., Schueller C.;  
 RT ;  
 RL Unpublished.  
 XX  
 RN [2]  
 RP 1-80386  
 RA EU Arabidopsis sequencing project;  
 RT ;  
 RL Submitted (23-JUL-1999) to the EMBL/GenBank/DDBJ databases.  
 RL MIPS, at the Max-Planck-Institut fuer Biochemie, Am Klopferspitz 18a,  
 RL D-82152 Martinsried, FRG, E-mail:  
 RL schuelle@mips.biochem.mpg.de,mayer@mips.biochem.mpg.de Project Coordinator:  
 RL Mike Bevan, Molecular Genetics Department, Cambridge Laboratory, John Innes  
 RL Centre, Colney Lane, NR4 7UJ Norwich, UK, E-mail: michael.bevan@bbsrc.ac.uk  
 XX  
 DR Demeter; AL022197; AL022197.  
 DR MENDEL; 29149; Arath;2296;29149.  
 DR MENDEL; 29151; Arath;1345;29151.  
 DR MENDEL; 29155; Arath;2475;29155.  
 DR MENDEL; 29156; Arath;2475;29156.  
 DR MENDEL; 29159; Arath;2972;29159.  
 DR MENDEL; 29812; Arath;1279;29812.  
 DR MENDEL; 29813; Arath;3324;29813.  
 DR MENDEL; 29815; Arath;1044;29815.  
 DR SPTREMBL; O65600; O65600.  
 DR SPTREMBL; O65601; O65601.  
 DR SPTREMBL; O65602; O65602.  
 DR SPTREMBL; O65603; O65603.  
 DR SPTREMBL; O65604; O65604.  
 DR SPTREMBL; O65605; O65605.  
 DR SPTREMBL; O65606; O65606.  
 DR SPTREMBL; O65608; O65608.  
 DR SPTREMBL; O65609; O65609.  
 DR SPTREMBL; O65610; O65610.  
 DR SPTREMBL; O65611; O65611.  
 DR SPTREMBL; O65612; O65612.  
 DR SPTREMBL; O65613; O65613.  
 DR SPTREMBL; O65614; O65614.  
 DR SPTREMBL; O65615; O65615.  
 DR SPTREMBL; O65616; O65616.  
 DR SPTREMBL; O65617; O65617.  
 DR SPTREMBL; O65618; O65618.  
 DR SWISS-PROT; O65607; MSH3\_ARATH.  
 DR SWISS-PROT; P92965; RS40\_ARATH.  
 XX  
 CC Information on performance of analysis and a more detailed annotation  
 CC of this entry and other sequences of chromosomes 3, 4 and 5 can be

CC viewed at: <http://www.mips.biochem.mpg.de/proj/thal/>

XX

FH Key Location/Qualifiers

FH

FT source 1..80386

FT /chromosome=4

FT /db\_xref=taxon:3702

FT /organism=Arabidopsis thaliana

FT /variety=Columbia

FT gene 3858..5132

FT /gene=M7J2.10

FT CDS 3858..5132

FT /db\_xref=SPTREMBL:O65600

FT /note=contains EST gb:T45048

FT /gene=M7J2.10

FT /product=putative protein

FT /protein\_id=CAA18164.1

FT /translation=MSFEFQKKKRGSWWSLYWCFGSKKNNKRIGHAVLVPEPAASGAAPVQNSSNSTSIFMPFIAPPSSPASFLPSGPPSASHTPDPGLLCSTLVNEPPSAFTIGPYAHETQPVTPPVFSAFTTEPSTAPFTPPPESPSSPEVPFAQLLTSSLERARRNSGGGMNQKFSAAHYEFKSCQVYPGSPGNNLISPGSGTSSPYPGKCSIIEFRIGEPPKFLGFEHFTARKWGSRFSGSGSITPAGQGSRLGSGALTPDGSKLTSGVVTPNGAETVIRMSYGNLTPL EGSLLDSQISEVASLANS DHGSSRHND EALVPHRVSFELTGEDVARCLASKLNRSGSH EKASGEHLRPNCCKTSGETESQSKLRSFSTGSNKEFKFDSTNEEMIEKIRSEWWANEKVAGKGDHSPRNSWTFPPVLRSGHT

FT exon 3858..5132

FT /number=1

FT gene 5914..8778

FT /gene=M7J2.20

FT CDS join(complement(8634..8778), complement(8284..8411), complement(8133..8198), complement(7993..8046), complement(7411..7515), complement(7106..7309), complement(6897..6982), complement(5914..6805))

FT /db\_xref=SPTREMBL:Q65601

FT /note=Contains Zinc finger, C2H2 type, domain, [CEKCSREFCSPVNFRRHNRMH]

FT /gene=M7J2.20

FT /product=hypothetical protein

FT /protein\_id=CAA18165.1

FT /translation=MELVKQDGNDSL DMLIRRAVGKDPFLSFPRPENTPVQLFQLLHTLERPGWPLLTPLKIQMKCEKCSREFCSPVNFRRHNRMRQRKPEKFVFKCYQDFGKERDALGAFWNKLSATDAKEILSVKSMMLIEDIPGASVESGLMSLIEKPGYTALPQYYLRAGSGLLDLLQARPPRLPISSQELFSILDDASEKTFLSSEAAPMQKYIFDGEIGKTVLEAKNVVACASFLLQRLIKAWLADKDAEALRCQNLLVEEEEEAARRRKAELLERKKRKKLRQKEQREKDQKDAKEDESTTSEEQQYPAEPSSPLSVASDSEAQTDPDLPIDSSSSLEEPQVLETNNGRNSETQVPMVDGLDNGQNMERRSGRRQMQRSQQGM PNGFHADHAPNLGGMRKNGTNRDARANTTKVWSRKS DNPKLISQHA AVTQQDQTKSSEFIVGSLSVSIRNSGEHNQTKCSEGERRTKTVEVKPASEQSTVKIWRPVSSQGRKTSTVNGNTDKEDKRSNPTTPEVKNAHHISLQFNNHEAKAFLAKSKPSFTLSFYLNLP IVYILEVVYSI

FT exon complement(8634..8778)

FT /number=8

FT exon complement(8284..8411)

FT /number=7

FT exon complement(8133..8198)

FT /number=6

FT exon complement(7993..8046)

FT /number=5

FT exon complement(7411..7515)

FT /number=4

FT exon complement(7106..7309)

FT /number=3

FT exon complement(6897..6982)

FT /number=2

FT exon complement(5914..6805)

FT /number=1

FT intron complement(8412..8633)

FT /number=7

FT intron complement(8199..8283)

FT /number=6

```

FT   intron                complement(8047..8132)
FT                                   /number=5
FT   intron                complement(7516..7992)
FT                                   /number=4
FT   intron                complement(7310..7410)
FT                                   /number=3
FT   intron                complement(6983..7105)
FT                                   /number=2
FT   intron                complement(6806..6896)
FT                                   /number=1
FT   gene                  10220..11825
FT                                   /gene=M7J2.30
FT   CDS                   join(complement(11788..11825),complement(11548..11667),
FT                                   complement(11376..11490),complement(11245..11298),
FT                                   complement(10930..10987),complement(10639..10871),
FT                                   complement(10220..10552))
FT                                   /db_xref=SPTREMBL:Q65602
FT                                   /gene=M7J2.30
FT                                   /product=hypothetical protein
FT                                   /protein_id=CAA18166.1
FT                                   /translation=MSSSSPPFCSSGSRKELRDKEITSKSDDTQASYVLGSKFVDPTRV
FT                                   LQLSWLPNRNVCFTASNFRGLKQFGMYRVFLYRGFLSEEECDHLISLRKETTEVYSVDAD
FT                                   GKTQLDPVVAGIEEKVSAWTFLLPGGLFSCGQTAGLCFSLDAHFSENGSGSIKVRSYTSEK
FT                                   SGKKLDYFGEEPPSSVLHESLLATVVLYLSNTTQGGELLFPNSEMKPKNSCLEGGNILRP
FT                                   VKGNAILFFTRLLNASLDGKSTHLRCPVVKGELLVATKLIYAKKQARIEESGECSDEDE
FT                                   NCGRWAKLGECKKNPVYIMIGSPDYGTCTRKSCNAC
FT   exon                  complement(11788..11825)
FT                                   /number=7
FT   exon                  complement(11548..11667)
FT                                   /number=6
FT   exon                  complement(11376..11490)
FT                                   /number=5
FT   exon                  complement(11245..11298)
FT                                   /number=4
FT   exon                  complement(10930..10987)
FT                                   /number=3
FT   exon                  complement(10639..10871)
FT                                   /number=2
FT   exon                  complement(10220..10552)
FT                                   /number=1
FT   intron                complement(11668..11787)
FT                                   /number=6
FT   intron                complement(11491..11547)
FT                                   /number=5
FT   intron                complement(11299..11375)
FT                                   /number=4
FT   intron                complement(10988..11244)
FT                                   /number=3
FT   intron                complement(10872..10929)
FT                                   /number=2
FT   intron                complement(10553..10638)
FT                                   /number=1
FT   gene                  12950..13442
FT                                   /gene=M7J2.40
FT   CDS                   join(12950..13191,13292..13442)
FT                                   /db_xref=SPTREMBL:Q65603
FT                                   /note=strong similarity to actin-depolymerizing factor,
FT                                   Brassica napus, PIR2:S30934
FT                                   /note=Contains Actin-depolymerizing proteins signature,
FT                                   [PDSSRVRMKMVMYASSKDRFK]
FT                                   /gene=M7J2.40
FT                                   /product=actin depolymerizing factor-like protein
FT                                   /protein_id=CAA18167.1
FT                                   /translation=MAVEDECKLKLFLELKSERNYRFIIFRIDGQQVVVEKLGNPDETYD
FT                                   DFTASLPANECRYAVFDFDFITDENCQKSKIFFIAWSPDSSRVRMKMVMYASSKDRFKRE
FT                                   LDGIQVELQATDPSEMSFDIISKRAL
FT   exon                  12950..13191
FT                                   /number=1
FT   exon                  13292..13442

```

```

FT                               /number=2
FT   intron                   13192..13291
FT                               /number=1
FT   tRNA                     13666..13747
FT                               /note=Ser-tRNA_(TGA)
FT   gene                     13922..16259
FT                               /gene=M7J2.50
FT   CDS                     join(complement(16184..16259),complement(15862..16065),
FT                               complement(15390..15785),complement(15119..15286),
FT                               complement(14100..15044),complement(13922..14016))
FT                               /db_xref=SPTREMBL:O65604
FT                               /note=similarity to low-temperature-induced protein 65,
FT                               Arabidopsis thaliana, PIR2:S30153
FT                               /note=contains EST gb:W43419, W43512
FT                               /gene=M7J2.50
FT                               /product=putative protein
FT                               /protein_id=CAA18168.1
FT                               /translation=MDSQAQLQRTGHGHQAQEPRIHHPEEEGHHEKGPSKVLKKVKEK
FT                               AKKIKNVLTKGHGHEHNRGEHIPDDHDLDDQEDDEDDYNDNQLHGGAPAAARGKAHIPVK
FT                               EEIVPPGSKAFPVVSSSHTKPSEPVRGVGHEAMSRPIKHSQVPEKEERRGAPTLPHT
FT                               PVSLLSATEDVTRTFVPDEHKSRNQSKVNIDRPGKGLDQDPAAPGSHGGLSNYQSKVTDPTGK
FT                               IGKSTGEIGAASVSAIGRLGLGTDLQKKSHGLDTKPTAQGSHGGMSSYQSKVTDPTGK
FT                               GAGEQPSVAAFGRNETGEDDHMGLGRDLREKSHGFDTKSRPEMGKHIPAGDYGSRLGK
FT                               ESPERSDEFDLGKDLPTRTQGIQNPQGFDSRGQRRGEEMHQPNSQSSYTDKISLATSVA
FT                               DKAVAAKNAVASKLGYSGEGGHENRVEGAENPSSAGGYGSTVASMVTPVYEKVKETGAS
FT                               VMTKLPFTGTGTGTEQQQDRGVSAKEFLTEKLSPEEDKALSEVVTEKLHLGGGGGETAPP
FT                               KRGIVTQSEEVKRLGGFKDPSSEAATKQGEAYAEEKGEGGIAEKLRGAVTSWIAGTTEE
FT                               VTQKSTESVQDSTQSLGSTIGNKMGITGSGGGEAGQQGSMPLQKRFQESGN
FT   exon                     complement(16184..16259)
FT                               /number=6
FT   exon                     complement(15862..16065)
FT                               /number=5
FT   exon                     complement(15390..15785)
FT                               /number=4
FT   exon                     complement(15119..15286)
FT                               /number=3
FT   exon                     complement(14100..15044)
FT                               /number=2
FT   exon                     complement(13922..14016)
FT                               /number=1
FT   intron                  complement(16066..16183)
FT                               /number=5
FT   intron                  complement(15786..15861)
FT                               /number=4
FT   intron                  complement(15287..15389)
FT                               /number=3
FT   intron                  complement(15045..15118)
FT                               /number=2
FT   intron                  complement(14017..14099)
FT                               /number=1
FT   gene                     16938..18692
FT                               /gene=M7J2.60
FT   CDS                     join(16938..17204,17685..17733,17858..18057,18366..18692)
FT                               /db_xref=SPTREMBL:O65605
FT                               /note=similarity to cytochrome b561, Homo sapiens,
FT                               PIR2:S53321
FT                               /note=contains EST gb:AA720180, R65413, T46072, AA728528,
FT                               T04182, T04807, Z37601, F19849, T88282
FT                               /gene=M7J2.60
FT                               /product=putative protein
FT                               /protein_id=CAA18169.1
FT                               /translation=MENLRIDSSQRPRLKINRTKEIRRVEKTRRKHKHSCRRERDMAVR
FT                               INAMAVTFVAHALAVIAAIMVLVWSISYRGGLAWEATNKNLIFNLHPVLMIGFIILGG
FT                               EAIISYKSLPLEKPVKKLIHLILHAIALALGIFGICAAFKNHNESHIPNLYSLHSWIGI
FT                               GVISLYGFQWVYSFIVFFPPGGSTNLKSGLLPWHAMLGFLVYILAVGNAALGFLEKLT
FT                               LENGGLDKYGSEAFILNFTAIITILFGAFVVLTAESAESPSPSPSVSNDSDVDFSYSAI
FT   exon                     16938..17204
FT                               /number=1
FT   exon                     17685..17733

```

```

FT          /number=2
FT  exon    17858..18057
FT          /number=3
FT  exon    18366..18692
FT          /number=4
FT  intron  17205..17684
FT          /number=1
FT  intron  17734..17857
FT          /number=2
FT  intron  18058..18365
FT          /number=3
FT  gene    19006..20024
FT          /gene=M7J2.70
FT  CDS     join(complement(19898..20024),complement(19681..19810),
FT          complement(19006..19600))
FT          /note=similarity to ATMYB4 - Arabidopsis thaliana
FT          /note=Contains Myb DNA-binding domain repeat signatures,
FT          Myb_1[WSPEDEK], Myb_2 [WSQIAKFLPGRTDNEIKNYWHS],
FT          ATP/GTP-binding site motif A (P-loop), [GLQRNGKS]
FT          /gene=M7J2.70
FT          /product=myb-like protein
FT          /protein_id=CAA18170.1
FT          /translation=MAKTKYGERHRKGLWSPEDEKLRSFILSYGHSCWTTVPKAGLQ
FT          RNGKSCRLRWINYLRPGLKRDMSAEEEEETILTFHSSLGNKWSQIAKFLPGRTDNEIKN
FT          YWHSLLKKKWLKSQSLQDAKISPPSSSSSSLVACGKRNPETLISNHVFSFORLLENKS
FT          SSPSQESNGNNSHQSSAPEIPRLFFSEWLSSSYPHTDYSSEFTDSKHSQAPNVEETLS
FT          AYEEMGDVDQFHYNEMMINNSNWTLDIVFGSKCKKQEHHIYREASDCNSSAEFFSPST
FT          TT
FT  exon    complement(19898..20024)
FT          /number=3
FT  exon    complement(19681..19810)
FT          /number=2
FT  exon    complement(19006..19600)
FT          /number=1
FT  intron  complement(19811..19897)
FT          /number=2
FT  intron  complement(19601..19680)
FT          /number=1
FT  gene    20376..24060
FT          /gene=M7J2.80
FT  CDS     join(complement(23942..24060),complement(23387..23432),
FT          complement(22619..22729),complement(22471..22572),
FT          complement(22037..22141),complement(21861..21971),
FT          complement(20376..20414))
FT          /db_xref=SPTREMBL:O65606
FT          /note=similarity to predicted protein F43G9.5,
FT          Caenorhabditis elegans
FT          /gene=M7J2.80
FT          /product=putative protein
FT          /protein_id=CAA18171.1
FT          /translation=MAMSQVVNTYPLSNYSFGTKEPKLEKDTSVADRLARMKINYMKEG
FT          MRTSVEGILLVQEHNPILLQIGNTFCKLPGGRLKPGENGILPPFWVYVVSAD
FT          GLKRKLTSLGGNSAALVPDWTVGECVATWWRPNFETMMYPYCPPHITKPKVVKHNEC
FT          KRLYIVHLSEKEYFAVPKNLKLAVPLFELYDNVQVGISNLIYTENC
FT  exon    complement(23942..24060)
FT          /number=7
FT  exon    complement(23387..23432)
FT          /number=6
FT  exon    complement(22619..22729)
FT          /number=5
FT  exon    complement(22471..22572)
FT          /number=4
FT  exon    complement(22037..22141)
FT          /number=3
FT  exon    complement(21861..21971)
FT          /number=2
FT  exon    complement(20376..20414)
FT          /number=1
FT  intron  complement(23433..23941)

```

```

FT          /number=6
FT  intron complement(22730..23386)
FT          /number=5
FT  intron complement(22573..22618)
FT          /number=4
FT  intron complement(22142..22470)
FT          /number=3
FT  intron complement(21972..22036)
FT          /number=2
FT  intron complement(20415..21860)
FT          /number=1
FT  gene      24464..29879
FT          /gene=M7J2.90
FT  CDS      join(24464..24938,24990..25399,25657..25848,26012..26176,
FT          26265..26363,26606..26901,27307..27607,27768..27899,
FT          28237..28497,28587..28658,28751..28900,28985..29102,
FT          29157..29446,29610..29879)
FT          /db_xref=SWISS-PROT:O65607
FT          /note=similarity to DNA mismatch repair protein rep-3, Mus
FT          musculus, PIR2:JC4019
FT          /note=Contains DNA mismatch repair proteins mutS family
FT          signature, [SLVILDELGRGTSTHDG], ATP/GTP-binding site motif
FT          A (P-loop), [GPNMGGKS
FT          /gene=M7J2.90
FT          /product=putative DNA mismatch repair protein
FT          /protein_id=CAA18172.1
FT          /translation=MGKQKQQTISRFFAPKPKSPTHEPNVAESSTPPPKISATVSFSP
FT          SKRKLLSDHLAAASPKPKLSPHTQNPVDPNHLQRFRLQRFLEPSPEEYVPETSSSRKY
FT          TPLEQQVVELKSKYPDVVLMVEVGYYRFFGEDAEIAARVLGIYAHMDHNFMTARYKIG
FT          VVKQTETAALKSHGANRTGPFRRGLSALYTKATLEAAEDISGGCGGEEGFGSQSNFLVC
FT          VVDERVKSETLGGCIEMSFVVRVGVVGVVEISTGEVVYEEFNDFMRSGLEAVILSLSPA
FT          ELLLGQPLSQQTEKFLVAHAGPTSNVRVERASLDCFSNGNAVDEVISLCEKISAGNLED
FT          DKEMKLEAAEKGMSCSLTVHTIMNPHLTVQALALTFCHLKQFGFERILYQGASFRSLSS
FT          NTEMTLSANTLQQLEVVKNNSDGSSESGSLFHNMNHTLTVYGSRLLRHWVTHPLCDRNLI
FT          SARLDAVSEISACMGSHSSSQLSSELVEEGSERAIVSPEFYLVLSVLTAMSRSSDIQR
FT          GITRIFHRTAKATEVKIWPVLCPLMYVPVSSSPGLRVLNFLDEKFIAMVEAILLAGKQI
FT          QRLGIKQDSEMRSMQSATVRSTLLRKLISVISSPVVDNAGKLLSALNKEAAVRGDLLD
FT          ILITSSDQFPPELAEARQAVLVIREKLDSSIASFRKKLAIRNLEFLQVSGITHLIELPVD
FT          SKVPMNWVKVNSTKKTIRYHPPEIVAGLDELALATEHLAIVNRASWDSFLKSFSRYTDT
FT          FKAQVQALAAALDCLHSLSTLSRNKNYVRPEFVDDCEPVEINIQSGRHPVLETILQDNFV
FT          PNDTILHAEGEYCQIITGPNMGGKSCYIRQVALISIMAVQGSFVPASFAKLHVLDGVFT
FT          RMGASDSIQHGRSTFLEELNELGRGTSTHDGVAIAYATLQHLAEKRCLVLFVTHYPEI
FT          AEISNGFPGSVGTYHVSYLTLQKDKGSYDHDVDTYLYKLVRGLCSRSFGFKVAQLAQIP
FT          PSCIRRAISMAAKLEAEVRARERNTRMGEPEGHEEPRGAEESISALGDLFADLKFALSE
FT          EDPWKAFEFLKHAWKIAGKIRLKPTCSF
FT  exon      24464..24938
FT          /number=1
FT  exon      24990..25399
FT          /number=2
FT  exon      25657..25848
FT          /number=3
FT  exon      26012..26176
FT          /number=4
FT  exon      26265..26363
FT          /number=5
FT  exon      26606..26901
FT          /number=6
FT  exon      27307..27607
FT          /number=7
FT  exon      27768..27899
FT          /number=8
FT  exon      28237..28497
FT          /number=9
FT  exon      28587..28658
FT          /number=10
FT  exon      28751..28900
FT          /number=11
FT  exon      28985..29102
FT          /number=12

```



```

FT     exon                29157..29446
FT                                     /number=13
FT     exon                29610..29879
FT                                     /number=14
FT     intron             24939..24989
FT                                     /number=1
FT     intron             25400..25656
FT                                     /number=2
FT     intron             25849..26011
FT                                     /number=3
FT     intron             26177..26264
FT                                     /number=4
FT     intron             26364..26605
FT                                     /number=5
FT     intron             26902..27306
FT                                     /number=6
FT     intron             27608..27767
FT                                     /number=7
FT     intron             27900..28236
FT                                     /number=8
FT     intron             28498..28586
FT                                     /number=9
FT     intron             28659..28750
FT                                     /number=10
FT     intron            28901..28984
FT                                     /number=11
FT     intron            29103..29156
FT                                     /number=12
FT     intron            29447..29609
FT                                     /number=13
FT     gene                30337..33267
FT                                     /gene=M7J2.100
FT     CDS                join(complement(33098..33267), complement(32859..32976),
FT                                     complement(32078..32662), complement(31889..31990),
FT                                     complement(31591..31794), complement(31248..31419),
FT                                     complement(30967..31197), complement(30767..30915),
FT                                     complement(30337..30678))
FT                                     /db_xref=SPTREMBL:O65608
FT                                     /note=similarity to homeodomain protein AHDP, Arabidopsis
FT                                     thaliana
FT                                     /gene=M7J2.100
FT                                     /product=putative homeodomain-protein
FT                                     /protein_id=CAA18173.1
FT                                     /translation=MNGQGDLDAVGNI PKPGEAEGDEIDMINDMSGVNDQDGGMRMRTH
FT                                     RRTAYQTQELENFYMENPHPTEEQRYELGQRLNMGVNQVKNWFQNKRNLEKINNDHLEN
FT                                     VTLREEHDDLRLATQDQLRSAMLRSLCNICGKATNCGDTEYEVQKLMAENANLEREIDQF
FT                                     NSRYLSHPKQRMVSTSEQAPSSSSSNPGINATPVLDPSGGTRTSEKETSIFLNLAITALR
FT                                     ELITLGEVDCPFWMIDPIVRSGVSKIYEYRSSFNNVTKPPGQIVEASRAKGLVPMTC
FT                                     VTLVKTLMDTGKWNVVFAPIVPVASTHKVLSSTGSGGTSKSGSLQQIAEFQVISPLVPKR
FT                                     KVTFIKYCKEIRQGLWVVVDVPTQNPPTLLPYGCSKRLPSGLIIDDLSNGYSQVTWIEQ
FT                                     AEYNESHQHLYQPLIGYGIGLGAKRWLATLQRHCESLSTLSSTNLTEISPGHFRFSTK
FT                                     FGQALIVIYVFDIGLSAKGATEIVKLAQRMTLNYRIGITSPPSVDKWQKIQVENVAQNMS
FT                                     FMIRKNVNEPVNQHTLFAFISHLSFRHEWDILTNDTTMEETIRIQKAKRHGNIISLLKI
FT                                     VNNGMLVLQEIWNDAAGAMVVYAPVETNSIELVKRGENSDSVKFLPSGFSIVPDGVNGS
FT                                     YHRGNTGGGCLLTFGLQILVGINPTAALIQTGTVKSVETLMAHTIVKIKSALDLQT
FT     exon                complement(33098..33267)
FT                                     /number=9
FT     exon                complement(32859..32976)
FT                                     /number=8
FT     exon                complement(32078..32662)
FT                                     /number=7
FT     exon                complement(31889..31990)
FT                                     /number=6
FT     exon                complement(31591..31794)
FT                                     /number=5
FT     exon                complement(31248..31419)
FT                                     /number=4
FT     exon                complement(30967..31197)
FT                                     /number=3

```

```

FT     exon                complement(30767..30915)
FT                                     /number=2
FT     exon                complement(30337..30678)
FT                                     /number=1
FT     intron             complement(32977..33097)
FT                                     /number=8
FT     intron             complement(32663..32858)
FT                                     /number=7
FT     intron             complement(31991..32077)
FT                                     /number=6
FT     intron             complement(31795..31888)
FT                                     /number=5
FT     intron             complement(31420..31590)
FT                                     /number=4
FT     intron             complement(31198..31247)
FT                                     /number=3
FT     intron             complement(30916..30966)
FT                                     /number=2
FT     intron             complement(30679..30766)
FT                                     /number=1
FT     gene                36776..40129
FT                                     /gene=M7J2.110
FT     CDS                join(36776..37390,37467..37598,37764..37812,37973..38187,
FT                                     38289..38357,38619..38719,38812..38905,38988..39057,
FT                                     39228..40129)
FT                                     /db_xref=SPTREMBL:O65609
FT                                     /note=similarity to ALR - Homo sapiens
FT                                     /note=contains EST gb:Aa395586
FT                                     /gene=M7J2.110
FT                                     /product=putative protein
FT                                     /protein_id=CAA18174.1
FT                                     /translation=MNRTVVSGAVESSFSLTDAVGTEALNMQRSSGINNNMRIPTSPMS
FT                                     FSSNSVNIPGSLVLDGSAASMQHLPQQQQQQQLLQQQTGQGSVPMRENSYSHVDKKPRLE
FT                                     VKQEDMLQQQILQQLIQRQDPTGRNPQMQUALLQQQRLRQHQQMLQSMSPSQRLQLQQQQ
FT                                     QLRQQQLQQQGTQQIPPNVRPYEVGVCARKLMMYLYHLQQRPAENCITYWRKFVAEYFSP
FT                                     RAKQRLCLSQYESAGHHALGMFPQAAPDMWQCDLCGTSKGKGFATFDVLARLIEIKFA
FT                                     SGIIDELLYLDHPRENRFPNGLMMLEYRKAVQETVHEQFRVVRGHLRIIFSQDLKILS
FT                                     WEFCAARRHEELLLRRLIAPQVNQLLQVAQKQSTISESGSEGVSQQDLQSNNSNMVLGAG
FT                                     RQLAKFMELQSLNDLGYPKRYIRTLQISEVVKSMKDLNMFTGEQKIGPIEGLKRLLEQT
FT                                     VTVKLQKQKMQEMEQQFGNNGAINGPVQAQMVLTSGTMNGSTGNNTNNHHQIVGRGAMSG
FT                                     PAEGQMVISSGTVSGATANNNNSNNHNQIVGRGAMNGSAQAAAALTNYQSMLMRQAMNN
FT                                     PNSNTGKQEGFSQNPSPNSNQSPSSSSQQRHNLVTGGFPNSPQMQQQQRTMNGPTNIL
FT                                     PQNHPhQLQSPHSHGNTPEQQMLHQLLQEMSENGGSVQQQQAFSGQSGSNSNAERNTTA
FT                                     STSNISGGGRAPSRNNSFKAASNNNLHFSedisITDHDfSEdGFFnnNDIYGGL
FT     exon                36776..37390
FT                                     /number=1
FT     exon                37467..37598
FT                                     /number=2
FT     exon                37764..37812
FT                                     /number=3
FT     exon                37973..38187
FT                                     /number=4
FT     exon                38289..38357
FT                                     /number=5
FT     exon                38619..38719
FT                                     /number=6
FT     exon                38812..38905
FT                                     /number=7
FT     exon                38988..39057
FT                                     /number=8
FT     exon                39228..40129
FT                                     /number=9
FT     intron             37391..37466
FT                                     /number=1
FT     intron             37599..37763
FT                                     /number=2
FT     intron             37813..37972
FT                                     /number=3
FT     intron             38188..38288

```

```

FT                               /number=4
FT   intron                   38358..38618
FT                               /number=5
FT   intron                   38720..38811
FT                               /number=6
FT   intron                   38906..38987
FT                               /number=7
FT   intron                   39058..39227
FT                               /number=8
FT   gene                     44542..45135
FT                               /gene=M7J2.120
FT   CDS                     join(44542..44930,45075..45135)
FT                               /db_xref=SPTREMBL:O65610
FT                               /gene=M7J2.120
FT                               /product=hypothetical protein
FT                               /protein_id=CAA18175.1
FT                               /translation=MINHSGSKYYEDLAEGNENQIRRRKGFEFFITLESPILSDEHISKG
FT                               KTYQQKTTSNPMGNSNQNPESFNQVDSLHLHESQRSENWRNPVDKEIKLYSSILLGN
FT                               KYTKADDQCRQNYKSICSQYLYLSQRCFDARCFEVRILLSRESIT
FT   exon                     44542..44930
FT                               /number=1
FT   exon                     45075..45135
FT                               /number=2
FT   intron                   44931..45074
FT                               /number=1
FT   gene                     45335..47410
FT                               /gene=M7J2.130
FT   CDS                     join(complement(47305..47410),complement(46410..46522),
FT                               complement(46080..46321),complement(45449..46006),
FT                               complement(45335..45368))
FT                               /db_xref=SWISS-PROT:P92965
FT                               /note=contains EST gb:T45156, H37668
FT                               /gene=M7J2.130
FT                               /product=splicing factor At-SRp40
FT                               /protein_id=CAA18176.1
FT                               /translation=MKPVFCGNFEYDAREGDLERLFRKYGKVERVDMKAGFAFVYMEDE
FT                               RDAEDAIRALDRFEFGRKGRRLRVEWTKSERGGDKRSGGSSRRSSSSMRPSKTLFVIN
FT                               DADNTRTRDLEKHFEPYGKIVNVRIRRNFAFIQYEAQEDATRALDASNNKLMKDVISV
FT                               EYAVKDDDDARGNGHSPERRRRDRSPERRRRSPSPYKRERGSPPDYGRGASPVAAAYRKERTS
FT                               PDYGRRRSPSPYKKSRRGSPEYGRDRRGNDSPRRRERVASPTKYSRSPNNKRERMSPNH
FT                               SPFKKESPRNGVGEVESPIERRERSRSPSPENGQVESPGSIGRRSDGGYDGAESPMQKS
FT                               RSPRSPPADE
FT   exon                     complement(47305..47410)
FT                               /number=5
FT   exon                     complement(46410..46522)
FT                               /number=4
FT   exon                     complement(46080..46321)
FT                               /number=3
FT   exon                     complement(45449..46006)
FT                               /number=2
FT   exon                     complement(45335..45368)
FT                               /number=1
FT   intron                   complement(46523..47304)
FT                               /number=4
FT   intron                   complement(46322..46409)
FT                               /number=3
FT   intron                   complement(46007..46079)
FT                               /number=2
FT   intron                   complement(45369..45448)
FT                               /number=1
FT   gene                     50016..50657
FT                               /gene=M7J2.140
FT   CDS                     50016..50657
FT                               /db_xref=SPTREMBL:O65611
FT                               /note=involved in low-temperature-responsive gene
FT                               expression
FT                               /gene=M7J2.140
FT                               /product=transcriptional activator CBF1/ CRT/CRE binding
FT                               factor 1

```

```

FT      /protein_id=CAA18177.1
FT      /translation=MNSFSAFSEMFGSDYEPQGGDYCPTLATSCPKKPAGRKKFRETRH
FT      PIYRGVQRNSGKWVSEVREPNNKTRIWLGTFTQTAEMAARAHDVAALALRGRSACLNFA
FT      DSAWRLRIPESTCAKDIQKAAAEALAFQDETCDDTTTTHGLDMEETMVEAIYTPEQSE
FT      GAFYMDEETMFGMPTLLDNMAEGMLLPPSPVQWNHNYDGEQDGDVSLWSY
FT      exon      50016..50657
FT      /number=1
FT      gene      53575..55416
FT      /gene=M7J2.150
FT      CDS      join(53575..54217,54285..54336,55167..55416)
FT      /db_xref=SPTREMBL:Q65612
FT      /note=strong similarity to transcriptional activator CBF1,
FT      Arabidopsis thaliana
FT      /gene=M7J2.150
FT      /product=transcriptional activator CBF1-like protein
FT      /protein_id=CAA18178.1
FT      /translation=MNSFSAFSEMFGSDYESSVSSGGDYIPTLASSCPKKPAGRKKFRE
FT      TRHPIYRGVRRRNSGKWVCEVREPNNKTRIWLGTFTQTAEMAARAHDVAALALRGRSACL
FT      NFADSAWRLRIPESTCAKDIQKAAAEALAFQDEMCDATTDHGFDMEETLVEAIYTAEQ
FT      SENAFYMHDEAMFEMPSLLANMAEGMLLPLPSVQWNHNEVDGDDDDVSLWNPFLWNL
FT      HYVCKTEKRVKTKQISSVKVYLSTLPENSTHGGVRRVFRPKRRLEEMKMKRRGQKIEM
FT      VVEQKKSKEDEDALSLSQGGEEEKRYEEEPYFC
FT      exon      53575..54217
FT      /number=1
FT      exon      54285..54336
FT      /number=2
FT      exon      55167..55416
FT      /number=3
FT      intron     54218..54284
FT      /number=1
FT      intron     54337..55166
FT      /number=2
FT      gene      56492..57142
FT      /gene=M7J2.161
FT      CDS      56492..57142
FT      /db_xref=SPTREMBL:Q65613
FT      /note=involved in low-temperature-responsive gene
FT      expression
FT      /gene=M7J2.161
FT      /product=DRE/CRT-binding protein DREB1C
FT      /protein_id=CAB51470.1
FT      /translation=MNSFSAFSEMFGSDYESPVSSGGDYSPKLATSCPKKPAGRKKFRE
FT      TRHPIYRGVQRNSGKWVCELREPNNKTRIWLGTFTQTAEMAARAHDVAALALRGRSACL
FT      NFADSAWRLRIPESTCAKEIQKAAAEALNFQDEMCHMTTDAHGLDMEETLVEAIYTPE
FT      QSQDAFYMDEEAMLGMSLLDNMAEGMLLPPSPVQWNYNFDVEGDDDVSLWSY
FT      exon      56492..57142
FT      /number=1
FT      gene      58666..59764
FT      /gene=M7J2.170
FT      CDS      join(58666..58995,59136..59146,59195..59420,59522..59575,
FT      59633..59764)
FT      /db_xref=SPTREMBL:Q65614
FT      /gene=M7J2.170
FT      /product=hypothetical protein
FT      /protein_id=CAA18180.1
FT      /translation=MASATTLFHHGSTRVLVARRRCQASVLRPYGGLKPFSLFCSLPN
FT      STAPFRDSLRAKSDGLARAYVTGAPPIVEEPPDKIEESKSEAESKDLISWGLLWSLMSK
FT      HKLRLSFKFGCFIMVSVIVLSKGRFFEVLIGVRPEPLWRLLSKIAVLYSLEPIFTIAFV
FT      TNMTAIWENVMAILRAQIFRRVLIQKAEFFDKYKVCFSFYSWFAQVGELTGLLTSDLGAL
FT      NSIVNDNISRDGRGFATFTEASHFFTMQM
FT      exon      58666..58995
FT      /number=1
FT      exon      59136..59146
FT      /number=2
FT      exon      59195..59420
FT      /number=3
FT      exon      59522..59575
FT      /number=4
FT      exon      59633..59764

```

```

FT      /number=5
FT      intron      58996..59135
FT      /number=1
FT      intron      59147..59194
FT      /number=2
FT      intron      59421..59521
FT      /number=3
FT      intron      59576..59632
FT      /number=4
FT      gene        61380..62733
FT      /gene=M7J2.180
FT      CDS        join(61380..61646,61751..61840,61927..62061,62149..62205,
FT      62291..62347,62497..62733)
FT      /db_xref=SPTREMBL:O65615
FT      /note=similarity to multidrug resistance protein, Mus
FT      musculus, PIR1:DVMS1
FT      /note=Contains ABC transporters family signature,
FT      [LSGGQRQ RVAIARSL], ATP/GTP-binding site motif A (P-loop),
FT      [GSSGAGKS]
FT      /note=contains EST gb:T22540
FT      /gene=M7J2.180
FT      /product=putative protein
FT      /protein_id=CAA18181.1
FT      /translation=MSVLMVKSDQEKLSSSSYLTTFYLFHICFSFPCSILSSVDVHFAY
FT      PLRPDVKVLDGLSLTLNSGTVTALVGSSGAGKSTIVQLLARFYEPTQGRITVGGEDVRM
FT      FDKSEWAKVSVISVNQEPVLFSLSAENIAYGLPNEHVSDDIIKAAKANAHDFFIISLP
FT      QGYDTLVGERGGLLSGGQRQ RVAIARSL LKNAPILILDEATSALDAVSERLVQSALNRL
FT      MKDRTTLVIAHRLSTVQSANQIAVCSDGKIIELGTHSELVAQKGSYASLVGTQRLAFE
FT      exon        61380..61646
FT      /number=1
FT      exon        61751..61840
FT      /number=2
FT      exon        61927..62061
FT      /number=3
FT      exon        62149..62205
FT      /number=4
FT      exon        62291..62347
FT      /number=5
FT      exon        62497..62733
FT      /number=6
FT      intron      61647..61750
FT      /number=1
FT      intron      61841..61926
FT      /number=2
FT      intron      62062..62148
FT      /number=3
FT      intron      62206..62290
FT      /number=4
FT      intron      62348..62496
FT      /number=5
FT      gene        63197..68535
FT      /gene=M7J2.190
FT      CDS        join(63197..63631,63732..63827,63998..64087,64223..64324,
FT      64524..64670,64790..64909,64997..65056,65147..65244,
FT      66806..66977,67072..67137,67434..67571,67723..67785,
FT      67880..67954,68012..68046,68139..68247,68335..68535)
FT      /db_xref=SPTREMBL:O65616
FT      /note=similarity to antisense basic fibroblast growth
FT      factor, rat, G1518635
FT      /gene=M7J2.190
FT      /product=putative protein
FT      /protein_id=CAA18182.1
FT      /translation=MDLDMNGGNKRVFQRLGGGSNRPTTDSNQKVCFHWRAGRCNRYPC
FT      PYLHRELPGPGSGPVAASSNKRVADESGFAGPSHRRGPGFSGTANNWGRFGGNRTVTKT
FT      EKLCCKFWVDGNCPCYGDKCRYLHCWSKGDSFSLLTQLDGHQKVVTGIALPSGSDKLYTAS
FT      KDET VRIWDCASGQCTGVNLNGGEVGCIISEGPWLLVGMPNLVKAWNIQNNADLSLNGP
FT      VGQVYSLVVGTDLLFAGTQDGSILVWRYNSTTSCFDPAASLLGHTLAVVSLVYGANRLY
FT      SGAMDNSIKVWSLDNLCIQTLTEHTSVVMSLICWDQFLLSCSLDNTVKIWAATEGGNL
FT      EVTYTHKEEYGV LALCGVHDAEAKPVLLCSCNDNSLHLYDLPMSDQEAPLRNGVEHKI

```

```

FT      FEVLPPFVDDDDYGGVIVEMKTPMDTKNFVAALRDSFEQWRLQGKKGWVWLNPLSHVNLVE
FT      PAVKEGFRYHHAPTYLMLVYWIPEAESTIPLNASHRVRVGAVVLNHNKEEKYGS LCGS
FT      GIWKIPTGVVDEGEEIFAAAIREVKEETGVRRSIYLNIDTEFLEILAFQCQTHESFFAKS
FT      DLFFVCLLRPTSFDIQKQDLEIEAAQWMRFEDSASQPITHKNDLFKDIHHICSMKMEKS
FT      YSGFSKKPITTFDDDKLGYLYLNKQEDMEQPIS
FT      exon      63197..63631
FT      /number=1
FT      exon      63732..63827
FT      /number=2
FT      exon      63998..64087
FT      /number=3
FT      exon      64223..64324
FT      /number=4
FT      exon      64524..64670
FT      /number=5
FT      exon      64790..64909
FT      /number=6
FT      exon      64997..65056
FT      /number=7
FT      exon      65147..65244
FT      /number=8
FT      exon      66806..66977
FT      /number=9
FT      exon      67072..67137
FT      /number=10
FT      exon      67434..67571
FT      /number=11
FT      exon      67723..67785
FT      /number=12
FT      exon      67880..67954
FT      /number=13
FT      exon      68012..68046
FT      /number=14
FT      exon      68139..68247
FT      /number=15
FT      exon      68335..68535
FT      /number=16
FT      intron    63632..63731
FT      /number=1
FT      intron    63828..63997
FT      /number=2
FT      intron    64088..64222
FT      /number=3
FT      intron    64325..64523
FT      /number=4
FT      intron    64671..64789
FT      /number=5
FT      intron    64910..64996
FT      /number=6
FT      intron    65057..65146
FT      /number=7
FT      intron    65245..66805
FT      /number=8
FT      intron    66978..67071
FT      /number=9
FT      intron    67138..67433
FT      /number=10
FT      intron    67572..67722
FT      /number=11
FT      intron    67786..67879
FT      /number=12
FT      intron    67955..68011
FT      /number=13
FT      intron    68047..68138
FT      /number=14
FT      intron    68248..68334
FT      /number=15
FT      tRNA      66272..66344
FT      /note=Lys-tRNA_(CTT)

```

```

FT   gene               72367..73988
FT   /gene=M7J2.200
FT   CDS               join(complement(73851..73988),complement(73633..73793),
FT   complement(72901..73582),complement(72778..72846),
FT   complement(72367..72684))
FT   /db_xref=SPTREMBL:O65617
FT   /gene=M7J2.200
FT   /product=hypothetical protein
FT   /protein_id=CAA18183.1
FT   /translation=MEEDPLVPLKARKTPMKLMAASLHFTTFFISTIFTFLHVIIITTN
FT   LIKDLGAFCKTVSEECYATETCRLGGATKQLGLIRGVSIINQLQAGKRRLEHLNQNVR
FT   QLQVGGKKSTLRGLLVDTPSHNCNLPRTKTPNVVARLMGLDLLPDNLELTRSPRNGVRG
FT   HRLSGNGSGTRSLPASPRISSDSENHRLSLELNRENNKHEEFVTRLKELKQDEQSPSP
FT   RYSGRQIVKQTKKRVTTTRKFGMDVTNLEKKRAGGAAQNRISQKEKTTSTNPAFVLRQY
FT   QQPATVITLSKENQQSLRPISGWEKAESKSKFSPHPTPNNRNKQRKKKQCKKIYVTSSA
FT   FSATERPRKQMKRAQEPERKADATICSGQKMYKYEKKLPQEPSSSKFYDSNTISPTIIN
FT   AGETEKDVPGMNKLEEEEEERVVSEIERQIVDALVQETVETSLWGLNANAVSFVRQ
FT   exon              complement(73851..73988)
FT   /number=5
FT   exon              complement(73633..73793)
FT   /number=4
FT   exon              complement(72901..73582)
FT   /number=3
FT   exon              complement(72778..72846)
FT   /number=2
FT   exon              complement(72367..72684)
FT   /number=1
FT   intron            complement(73794..73850)
FT   /number=4
FT   intron            complement(73583..73632)
FT   /number=3
FT   intron            complement(72847..72900)
FT   /number=2
FT   intron            complement(72685..72777)
FT   /number=1
FT   gene              80169..80384
FT   /gene=M7J2.210
FT   CDS               80169..>80384
FT   /db_xref=SPTREMBL:O65618
FT   /note=EC_number=1.14.11.-
FT   /gene=M7J2.210
FT   /product=gibberellin 20-oxidase (fragment)
FT   /protein_id=CAA18184.2
FT   /translation=MAVSFVTTSPEEEDKPKLGLGNIQTPLIFNPSMLNLQANIPNQFI
FT   WPDDEKPSINVLELDVPLIDLQNLLSD
FT   exon              80169..80384
FT   /number=1
XX
SQ

```

```

Sequence 80386 BP; 24706 A; 15164 C; 15025 G; 25491 T; 0 other;
gatctatatc tctatctata atatataaaa ttatattaaa aaggagaaaa tgtgctgaaa      60
agtttgtatg atgaaaatga ataaatcatt gttttaaatt gaagttaaat ttacgtaaat      120
gtgtgccgct attccacata attgtaaaag gcaatcttaa aaagtaattt tcaaagtcaa      180
ggtaaaagag tagatattta atttatagtt cgtcaagtaa agataaatcc tctatttta      240
gtagtcacat gttttattgc tagggctgct gctttatttg tcatattact tgcgatcgag      300
acaatagagt agagacgacg atgtatgtcc accaaaacaa atcgattttc atgaaatatt      360
atcaactatt ctttattatt tttttgggta tgaatgttaa gtaactatta tttatttttt      420
caaaccagat cctaacaatc tacataaaga gctaaaccac catgtgcata atgagctaac      480
acactttgca atgacaatat gtgataggac gcatcacaca catcttccgt aaagagaata      540
ctaacaacat tattacgtct acctaaaatt gtgtacatgc tttgatagga tgtaatagaa      600
aaacttgacc aacaccacac atgttttcta ctttaaaaca agtacatttg tatggactta      660
acaccataat gttttgaaac ccggtatctg aaccatgttc agtttttttt tcttataaat      720
atcagtcctta agaatttttc ttaaggattc acaatccaac atgagcataa tagagagaga      780
agtaattgct atattctcaa taacaacact tgacatatat taatttaaga gcatcctcat      840
aataacatct aagtattttg ttatacaact tctttaagtt tccaataatg acctaaatgt      900
tagatgggtca ttggaagaca tccatgattg cttcgagtgg cttctactaa ggatatgctc      960
atctattcaa aagactatat tttgccatga ttgatgataa aatctaaaaa atgtatatta      1020
acatcgcaaa tgaaattgga tattcacata caaaaataat tgtatattac gtattccata      1080
gtacttaagt attatgatat atatattttt tctttttctt tttcaaagca ttagaataaa      1140
aacattcaaa atatgtttga taggtttttc tatacttcat ttatgttact gatatagtgt      1200

```

ttaaataatg	taaaagtga	tatccaactt	ctcaagagac	aaagaaaggt	aaagggtcgc	1260
attcgtacac	acgcacgagg	gatacacgta	aaagtcatta	cgcaactcaa	caaaagcaaa	1320
agaagaagag	aatgcgatgc	acacgtgcgc	tctcttttag	cccataaaaac	ccttctcttc	1380
ttcccttttt	cattggccta	taaaatcaat	tttactaaac	taacctctca	aatcttttta	1440
gtcgttttgg	tttagtttaa	tcattcacaa	atgacaaatg	acaaacccta	caaaatcctt	1500
atcgaaacca	ccctcacaaa	tcttctttgt	cgctttgggt	tagtttaaat	gtttaatcat	1560
tcataaaaaca	caaaccctac	aaaatcataa	tcgatacatc	atcgaagatc	cgccattact	1620
aaagtatggc	ggctaagagc	agtgaatttc	tcttccta	cttagtctca	tgtgtataaa	1680
aaaccttaaa	aggaaataac	aataataaaa	agtcaactac	tggttaggca	aactaatagt	1740
atagttgtta	accattttga	taaggccgtt	tacaaattac	aaccgttcga	ttcgattcta	1800
aagaatctct	ttaactcttt	ttagttgact	atccactccc	accgtcta	aaatcgataa	1860
tttttagacc	tctttttacg	tcgataattt	ctagagctaa	ttggatattt	agggatattt	1920
aaaattagaa	actaatcaat	ttcgaagata	cccatcaag	atttccaagt	aatgcacatc	1980
aataggtcta	attgtgcata	tcattgggtg	acgaagagac	atcttattat	tggcatttat	2040
tagaatatgc	atattcaaat	atatcacatg	gaagtcattc	gattttttct	agctaacaaa	2100
gtatgttata	ccatcttatt	atttgggtgat	tttattaatc	ttattagcat	tatatgttta	2160
gaagtataat	ttgcccacaa	aatatattcc	atttcaagtt	cattgagaaa	tattctcata	2220
acatgcaaaa	gaagctcaaa	actgaccaca	ctagaatcca	aaatcgccaa	agaattgata	2280
gagtcagtct	catcatagct	tacacgagaa	tataaacttg	actagataaa	gaattataac	2340
tttttcagct	gttaaaagct	ctctagtga	tatattggac	atacgtactt	gattgtagta	2400
gatagacgtg	ttctttcaca	tgtgtacacc	atgcaaaata	gaaacattgc	cgttttataa	2460
attaaaaaaa	aaccattaaa	agaaatcatt	ccaaaccgga	ccttagcaat	aactatgttg	2520
atatgaaagc	taataaataa	gttagagaaa	aaaactaatg	taagtcacga	ggatctcact	2580
cgccacccaa	cggaatgaaa	tcagcggcgc	atttatctta	aaagactcgc	aatgctcacg	2640
agtttcgcga	cgccagccat	tactgagttg	catacccttg	taattaccac	gacaataacg	2700
agggtaatct	tgggtataaac	atgttttctt	gaagtttatt	ttattttttt	aagtcactcc	2760
aatcaatttt	gcctttgaaa	aaaagaaagc	catttgtctg	cattggggac	tcatacttta	2820
tatatatgog	ttactctccc	ttttttaagt	gttttttttc	ttttgttctt	ttccaattat	2880
tttttagcaat	aatcataatg	ataattttaa	tatttttaaca	caataatagc	gaataaataa	2940
tatatacatg	gaagcgcgtg	ggtccaaacc	gtcaaattat	gatgacgtgg	caaaatctcg	3000
tgggaaattg	aatgaaaact	gtaaaagata	acgaccggtg	acagagagag	agagagagga	3060
gaagaagaat	agaagaagcg	gctcatatcc	ataataaaag	ccatttgctc	ctttatttat	3120
tctctcattc	tttctctctc	attattcatt	tctctcgtta	ttcgtttcgt	attttgtttg	3180
tgtttatgat	tttacctcct	tagttgctgt	gagatcaaga	agtgggtgaa	gaaaagttac	3240
taaatctgga	tgttatttga	tgtcgtcgt	tgttcttgag	ctatgaggag	cgattgtcag	3300
agtagtgcg	acaccgtgaa	cgccgcgcgt	tccgccatcg	tctccgctga	gtctagaaca	3360
caaccgtcgt	cggttcagggt	acttctatga	gctctttttt	ttttttctga	gtgaaaatgt	3420
ttttattttg	gttctttttt	ttttttttta	aagatcagtg	ttgttgcttt	gatttgccga	3480
cgttttctgac	gggtgatcgt	gattgtagtt	ttgattgctc	agagacatgg	tttttataag	3540
taaaagttag	aatttcgtga	tgtttttgat	gtttgatctg	tttttgcaag	tgttacgtaa	3600
cgaaattaaa	caaagtttta	agagattttt	gcgttactta	ttagttatgc	tcattttacct	3660
gttattgctt	tacttaacta	ggattaaaga	gtttttgacg	aaagtagaaa	tataagaaga	3720
ttcgagattt	gaacttattt	taaatgtcta	ttatttatca	gcagcaccag	agtaggtgtg	3780
gtttcagcaa	gattttaaact	tcttgataaa	gctataagcc	attgaatctt	tagctgatca	3840
ctaactctgt	ttttattatg	tcctttgaat	ttcaaaagaa	aaaaaggggg	agctgggtgga	3900
gcttgtagtc	gtgttttgga	tccaagaaga	acaataaaaag	gataggccac	gcgggtcttg	3960
taccggaacc	agctgcatca	ggagctgcgg	tggctccagt	ccaaaactct	tcgagcaatt	4020
ctacttcaat	attcatgccc	tttatagctc	ctccttcate	tcctgcttcc	tttctgccat	4080
cagggtcctcc	ctctgcgtca	catactcctg	atcctgggtc	actttgttcc	ctaaccgtca	4140
atgaaccgcc	ttcagccttt	actattggac	catagctca	tgagactcaa	cctgttactc	4200
ctccagtggt	ctctgctttc	acaacggaac	cctccaccgc	gccattcacg	ccacctcctg	4260
aatcaccttc	ttccctgaa	gtgccttttg	ctcagttact	tacatcttca	ttggaaaggg	4320
ctaggaggaa	cagtgggtggt	ggaatgaatc	agaagttttc	agctgcacac	tacgagttta	4380
agtcttgcca	agtgtatcct	ggaagtccag	gtggtaatct	aatctctcct	ggttcaggta	4440
catcttctcc	ttaccagagg	aaatgctcca	tcatacgagtt	tcgtatcggc	gaacctccaa	4500
agtttctttg	ttttgagcac	ttcacagcgc	gtaaatgggg	atcaagattc	ggttctggat	4560
ccatcacacc	tgtcggacaa	ggttcaagg	tgggttcagg	tgccttgact	ctcgtatggc	4620
caaagctaac	ttctgggtga	gtgacaccaa	atgggtgcaga	gactgttata	agaatgagtt	4680
atgggaatct	cacaccactt	gaaggcagtc	ttttggatag	tcagatctct	gaggttgctg	4740
cttttagccaa	ttcggaccac	gggtcgtcaa	ggcataatga	tgaagctctc	gtgggttctc	4800
acagagtttc	tttcgagttg	actgggtgaag	acgttgacag	gtgtcttgca	agcaagctaa	4860
accgttccgg	ttcacatgaa	aaagcaagcg	gcgaacattt	aagaccaa	tgttggtaaaa	4920
cgctcgggga	aacagagagc	gaacagagtc	agaagctaag	atcgttttct	acaggtctca	4980
acaaagaatt	caagtttgat	agcaccaatg	aagagatgat	agagaaaatt	cgatcggagt	5040
gggtgggcgaa	tgagaagggtc	gccggaaaag	gtgatcacag	tccaagaaac	agttggactt	5100
tctttccagt	cttacgctct	ggacatactt	agcacaagaa	aatagctttt	accttcttca	5160
ttacctataa	catgggaagc	aaagtcagtg	atatggtaag	agattggggg	ctaacaacta	5220
tacatatata	tagcttggtta	ttgttaggtg	ctttgttctt	tgtactgtta	attatataaa	5280
atagttttta	cacttaaatg	gtagacttat	cattgacaaa	agaaaagaaa	ctgtattctt	5340



tcttggttat	gtataaacat	aaaaatcatc	tctttactat	attgtcttac	atTTTTgagt	5400
tagaaaggcg	agctctacac	gcggtgtgcg	tgttgagaaa	aaaattcatt	gcacaaaaga	5460
tctgagaacc	ccatttcagt	ttcaaatctt	aaacccctcaa	aatggcaaaa	aaaaaggcca	5520
acaaaataac	aaaacaatct	ctttctacca	agaatatgaa	gtcaaaaaaa	gaaaagaatg	5580
aagactctta	aaatgggaaa	aaatctctct	agaagcaaa	aaaatatctg	tctcgctcgc	5640
taacactgca	cttttggtat	acctaataaag	aatgatactc	tgggtccagaa	tcaggcttgt	5700
ctttttggtt	tcaagttttc	aaggaatcct	ctgttttgga	acatacttta	cctttgtgcc	5760
cttttcggct	ttcgtcctca	gctttgatct	tgcggttata	acaccatttg	aggactcgtg	5820
agtgttgttg	cctgagatgt	cggtttcctg	agacagaacc	aatgtcacgt	gttctgcaga	5880
ggttgcctct	ttccatcctg	acaagccatt	tattcagatt	gagtaaacaa	cttccaaaat	5940
ataaacgata	gggagattaa	gataaaaaa	aagggtaaaa	gaaggtttac	tctttgcaag	6000
aaacgccttt	gcttcgtggt	tgttaaactg	caagcttatg	tgatgagcgt	ttttcacttc	6060
gggtgtagtt	gggtttgatc	tcttatcttc	tttgtctgtg	tttccattga	ctgttgagg	6120
ttttctctcc	tgactgtctc	ctggtctcca	tatttttaca	gttgattgct	cagatgcggg	6180
tttcacctca	acagtctttg	ttcttctctc	cccttcactg	catttggttt	gggtatgttc	6240
gccactgttt	cggattgata	cactcaacga	tccaactata	aattcgctgc	tctttgtctg	6300
atcctgctga	gtcactgctg	catgttgtga	tatcaatttg	gggttatcgg	attttcggct	6360
ccaaacttta	gtagtattgg	ctcttgctgc	tctgttggtt	ccattctttc	gcattgcctcc	6420
aagggttggt	gcattgatcag	catggaaccc	attcggcatt	cctgttgtg	atctttgcat	6480
ttgcttacgg	ccacttcgct	tttccatggt	ttggccattg	tctaagccat	caaccattgg	6540
cacttgctgt	tcactgtttc	ttccattatt	agttttccaaa	acttgagggt	cctcgaggga	6600
tgaagaatca	tcaattggta	aggaatctgg	tgtctgtgct	tcagaatcag	aagctacaga	6660
taaagggtct	gatggctcag	ctggatattg	ttgttcctct	gatgtgggtg	tctcgctctc	6720
cttagcatct	tttttctggt	ccttctctct	ctgctctttc	tgcttagctg	tcttctctct	6780
cttctctctc	aagagctcag	cttttctgct	ccgaacataa	taccagttaa	ttagactcaa	6840
cacttagtgg	attcagcaac	gttatattac	tggcattgca	attaataaag	acttaccctc	6900
ttcgagcagc	ttcttctctc	tcaaccagta	aattttggca	cctcagagct	tcagcatctt	6960
tgtcagcaag	ccatgcttta	atcttcacat	taagaatata	aagataaatc	gcgtgtaatg	7020
gatacatgaa	aagtaaaagt	ctcgtattag	acacttcgct	ttaccaacta	gagagggaatg	7080
gtgaaacttt	gaaggaaaaa	tttaccaatc	gctgtttccag	aagggaagctt	gcgcaagcaa	7140
caacattttt	tgcttccagt	acagtttttc	ctatttcccc	gtcaaaaaatg	tacttttgca	7200
ttggtgcagc	ctcgctagac	aggaaaagtt	tttcaacttg	atcatcaaga	atgctaaaaa	7260
gttctctgca	agaaattgga	agtctaggtg	gtctagcctg	gagaagatcc	tggagaaaga	7320
ggaacatata	tcagccatga	ggttgaacat	tgaggatagt	ttatctagac	agggaaaaaag	7380
aaaccgtcaa	gagagagatg	caattcatat	caaaaggcca	gaaccagctc	ttagataata	7440
ttgtgwcaga	gcagtatagc	ctggtttttc	gataagtgc	attaatcctg	actccactga	7500
tgcccagga	atatcctaca	agaatccaaa	caaagcatct	cgagttagtc	tacaaatcat	7560
tttaatcagg	acacaggtcc	atgatgcata	atgagagaga	aaagaaggta	agaaaggta	7620
atcatggatc	agatatgcac	actcaacaag	cctgtgagtg	tatgtatacg	aatctgggtat	7680
ggtatactct	tacttttggt	taatgaaaaa	gtattttatt	ggaaacgaat	cccataaacc	7740
tgtagaagtc	atatggcatt	ctaggaaaca	tttatgacaa	tgcttattat	gtattcacacc	7800
tttcaactaat	gaagaaaaaa	gagcgataaa	gcatttcaaa	aaagtcaaac	ccttagacaa	7860
gatgtgacaa	acaacaatga	aattagaatt	gggcctgaag	aacatgttat	gccacactcg	7920
tatgtgagga	tcaccatgct	ttttaagtta	agataaagg	aaaagggaag	gcattcaatgg	7980
gaatcatagt	acctcaagca	tcatgctctt	tactgagaga	atctcctttg	catcagttgc	8040
agagagctga	aataacaaca	gagatcagta	cctgatggaa	aaactaatcg	aattggcaat	8100
aactgtgaga	agactactag	agggaaaact	accttatttc	aaaaggctcc	cagcgcattc	8160
ctctctttgc	caaaatcctg	gtaacattta	aacacaaact	tcagatgact	tcaaaatcat	8220
gagtaaaagca	accagtaaa	acataaaaag	aagaaaagta	agttaagctc	agactaagca	8280
aaccttttcc	ggctttcttt	gacggcgatg	catgagggtta	tgtcttctaa	agttcacagg	8340
agagcaaaaac	tccttactgc	acttttcaca	cttctgcatt	tgtatcttca	aaggggtcag	8400
caatggccag	cctgggaacg	aaatagaaca	tcaataaaag	tccatgtacc	ataccctagg	8460
ccacatgtaa	ttcaagcatc	acttggatct	aaaaaaaact	caataagcta	atatgataaa	8520
cccctcgaga	ccaaaacgat	atatccacag	agtactcaat	ccaccaaatt	ccaaagtatt	8580
tggtcagtg	aaatgtcaaa	tccaaaaaaa	gatgagagac	aatgagacat	tacctggacg	8640
ttctaaggta	tggagaagtt	gaaaaagctg	gacaggagta	ttttcagggtc	taggggaagga	8700
aagaaaacgga	tccttttccaa	ccgcacgtct	gataagcata	tcgagagaat	cattccccatc	8760
ttgttttaca	agctccattg	aattcgactg	caacatacat	tcacaaaaca	caaatctcta	8820
taaaacaaagc	acctatatac	tgaaccgatt	cttccccctaa	gcaactatat	aaatcaacag	8880
tattcgattc	aaatagcgtc	aaaatcacta	acacagacag	atgcctaatt	tcctccatga	8940
ctaagccacc	taacagagaa	aaatcggaat	tgaatcata	gtattcgctg	tttgaaatct	9000
aatcaaaatac	cagtgatgta	tagacgaagg	aatgaattca	aatcgattta	gtgtgtgttc	9060
atgagaagag	aatgggttagt	ccgatcacgt	accagtaaaa	aaaaaaacag	taacagatcg	9120
ggcggagaat	aggaggaaga	gaagaatcga	gagcgatcct	tctggggatt	cagaggagct	9180
tgggacggaa	gaaagtcgcc	gagaaaatca	gagaaaagta	tgggacgcaa	aaaaggagaa	9240
gagagaaaaa	tgagagaaaa	tttcggagag	aggaggagga	ggcaaaagag	ctctggaaga	9300
aaaattataa	aggcctagta	cgggcaaaaca	aaacaaccc	tgaggctcaa	atcacaaaaa	9360
aatccagcaa	atatttgatc	agtaaatgtg	tatttttgtt	ttaaaaataa	ctaagaaaga	9420
aaaaactttt	ttttttcttt	atcaatcctt	tattttatta	tttcttaaca	tgtaaagatat	9480

tagaatagac	tgttatgttt	gaagaaagtt	attgggatag	acatacaaaa	attatgattc	9540
atgaacaatt	gtctagatct	tgttggtccg	atgataggag	agtgatataa	tttctaattt	9600
tttctttctt	ctgatttttt	ttcaaaattg	atggaaccac	atggagtatt	tattttctcc	9660
agataaatat	ccaattttta	taggaaaaaa	tattacaatt	taaaattttt	cctgtatact	9720
taactactta	acttttgatt	accatttttt	aaaaactatg	aaattttggg	cttagatcat	9780
aatctcttcg	atggggaccat	aacatgttaa	actagtccaa	cttttcatca	atagtgtctt	9840
aacttgtgat	aaaacatttg	tttgtttttt	ttgggttagcc	aacaagtaca	ctgggtgata	9900
tgtttttaaa	atatctagta	tttataggaa	attgcaattt	taaaaatggt	ggaactagca	9960
agagaaaggg	actatgctgc	gtaagaaaca	gcaagatgca	aatttatgat	tcgagagaaa	10020
catagataac	aacatagaca	aagactttct	gttatatcaa	agaagatcta	agtgagtata	10080
ttctttttct	ctatggccaa	gaggaattaa	ttaccaccac	gacccttaac	tattcactat	10140
ttattctatc	ttatagacca	aaaacagctc	aagtacttga	gtatgaaaaa	gttcaattat	10200
ttgcgataag	attgaagaat	caacaagcgt	tacaactctt	tctgcaggta	ccgtagtaat	10260
caggagagcc	aatcatatag	acagggtttt	tcttgcaact	cccaagctta	gccaactcgt	10320
cacagttttc	gtcttcatca	ctgcattccc	cactctcctc	aattcttgct	tgtttcttcg	10380
catagatcag	ttttgttgcc	actaacagtt	ctcctttcac	cacagggcac	ctcaaagtag	10440
tgtttttccc	atccaaagat	gcattcaaga	gcctggtgaa	gaacagaatt	gcgtttcctt	10500
ttactgggtc	taaaatgtta	ccgcctccca	agcaactggt	tttggggttc	atctggaaaa	10560
aaagggaagc	tcaacattca	ttgtgggtgt	ccaaataaaa	gtcatctttt	tgcctctcag	10620
gttagaaatc	aaactgacct	ctgaatttgg	gaagagaagc	tctcctcctt	gagttgtggt	10680
tgagaggtag	agaacgacgg	ttgccagcaa	agattcatgc	aatacggagc	taggttctct	10740
tccaaaataa	tccaacttct	ttcctgactt	ctcagaagtg	taacttctta	ccttgataga	10800
gccgccattt	tctgaaaaat	gtgcgtcaag	agagaaacat	aagccagcac	tttggccaca	10860
agaaaaagaa	ccttccaaga	gcaatcacaa	agtcctcgta	gattacaaaa	ccaagataag	10920
taaagttacc	tcctgggagg	aaagtccacg	cagaaacttt	ttcttcaatc	ccagcaacta	10980
ctggatccta	gtttatccaa	aatgatacca	aaataaggaa	cggaacatga	caattgtaaa	11040
ggccattttg	atcaaccaag	atggaaactg	ctatactagg	gtgtgaaatc	atttgtgtta	11100
acttgacaat	atatgagaaa	gggtgttaca	taaaactcca	aacatatatc	tcaaagtcta	11160
caacaacact	agcgtcttta	caacatagtg	ttataagaac	atgacaatat	ctaattggaa	11220
agttgaagaa	tacaaagaac	ttacaagttg	cgtctttcca	tcagcatcca	ctgagtaaac	11280
ctctgtagtc	tcctttctct	aacagaaaaa	aagtaaccat	tacacaaaag	acaatgtatc	11340
actatatctc	aaacacaaaa	gaactggaaa	ttaaccagag	atatcagatg	atcacactct	11400
tcctccgaca	agaacccgcg	gtatagaaaag	accctataca	taccaaattg	cttcagaccc	11460
ctaaaatttg	aagcagtaaa	acatacattc	ctatgtgcag	aaatgatcca	tgatggtaga	11520
accagatctc	aatcagaagt	acctgacctt	ggtagccatg	aaagttgaag	aacacgtgtc	11580
gggtccacaa	atthagatcc	taaaacataa	ctgcctgtgt	tatcatcact	cttactcgta	11640
atttctttat	ctcggagctc	cttccgactg	caaaaagtag	aaaacaaatc	ctggattaaa	11700
agctagattc	atcgctagaa	agaagaaacc	aggtatcaca	ggtaggtggg	tgataatgat	11760
tgcaaaatga	gggattttga	aatacacctt	ccaccggaac	agaaaggagg	agacgaagaa	11820
gacatagtaa	tcatacagaat	aaggaagatt	cggtcaaggc	aagccattgc	tccactccac	11880
tgggtactac	tgctacatcg	ctgaaacgag	gaacagaaaag	atgttcccga	tgcgttaaac	11940
acgtcgttta	gtaagttgtg	tccttcgaag	cttttctttt	atcaaagtta	acttagaaaa	12000
atgccaaatt	ttcaaaacta	ccccaaaaaa	atatatatatt	ttcattttcg	gagtatcatc	12060
gtttttggctc	attttcatatt	atgcattcaa	aaaatggaga	caaaatatga	aaatgatttg	12120
atcaatgtgt	aagcaaacgt	caagtggaca	ctaacgcca	gtcgccaagc	gatttgccat	12180
attttagtat	tcattgcaaaa	aaaagttaaa	aaaaaaataa	gaatgtatga	atgaatggat	12240
ggatgatgtg	tacacacata	tagattgtcta	aaaatagaga	agaaagtgtc	tgaaaaaggg	12300
gatggttagg	cgatttttta	ggtttgataa	aaaagaaaac	acaatgtgtg	gggtggtgat	12360
acaaatacag	atcagagacc	aatattaagg	agcctttaat	tagttgtccg	agtttgccct	12420
gatoctttct	tcacaaaagg	aattcatctt	cttccctcac	aatattctca	cataacaaca	12480
aatctttcga	tcttctctca	gtcttatcat	agaacctaga	caaaagcaat	ggtttgttct	12540
cttctctttt	tctaattcat	ttgtaggatt	gtttggttct	agcattacat	gccatcaatg	12600
tgatgatttt	tttctagtcg	gggcgaaaag	tacacgatat	tcaaattctat	gaaatgtact	12660
agtcacaaaa	tctgatttaa	tttttgtcta	atcatatggt	aattagacgt	cgattttacc	12720
atgttattga	cgtgtctctc	attttacatg	ctatatattg	tgtcttgtct	agttcataat	12780
tgtcataact	caattgctag	actaagatta	ttactaatgt	tttgacatat	ggaaattagt	12840
aatggaaacc	aaaacgccta	gctaacttga	aagtattttt	ttccccgggt	atacaaaaaa	12900
tgtctctctc	ctaatttatg	tgaatgaaaa	ggcgaacgcg	gcgtcgggga	tggcagtgga	12960
ggacgagtg	aagctgaagt	ttttggagct	caagtcgaaa	agaaactatc	gattcataat	13020
attcaggata	gacgggcaac	aagtggtggt	cgaaaagtta	ggaaaccccg	atgagactta	13080
cgatgatttc	accgcctccc	tccttgcgaa	cgagtgcgcg	tatgcagtct	tcgactttga	13140
cttcactacc	gatgaaaatt	gccagaagag	caaaactctc	ttcattgcac	ggtagtattt	13200
tttttttaat	ctttcacttc	acttctttaa	ttcctattaa	taagcttaaa	tttgattatt	13260
tgttaaaact	tggatgatga	aacatatata	ggtcaccaga	ttcatcaagg	gtgaggatga	13320
agatgggtga	tgcaagctct	aaggatagat	ttaagagaga	attggacggc	attcaggtgg	13380
agttacaagc	cactgatcct	agcgagatga	gcttcgcacat	tatcaaaagc	cgagctctct	13440
agatcctttt	caacgatcta	tatctctatc	atcgactctg	atcttcacaa	aaaaaattac	13500
catgtcatct	ggttgaaaac	tgaattcttt	atctgtctta	ttcattttat	aaacactctt	13560
ttctttctac	ttccgtttgg	gagagaagtt	caaaccctgt	agctttgttg	tgtaactctc	13620

aaataaacga	ataatatctt	ctacctcgtc	gtggttaaac	aagaagtcga	tatgtccgag	13680
tgggttaagga	gacagacttg	aaatctgttg	ggcttcgccc	gcgaggttc	gaaccctgct	13740
gtcgacgata	atctttactc	cttttgtgtt	gtactaagtt	acaatactat	ttaactcaat	13800
ttattcatac	ttttacatgg	tactagtagt	agatacatca	aaataagcca	tggtatcata	13860
aaccacacag	cacattagaa	aggatttaaca	aaccatacat	ttaaaaagaa	gaagcagaat	13920
ctcagtttcc	agattcttga	aatctctttt	gcaaaggcat	agaaccttgt	tggtctgctt	13980
cacctcctcc	cgaacccgta	attccccattt	tattccctaa	ccatcattac	accaaattaa	14040
aagtcattac	caccgtcaaa	agccgaaaaac	gttggttaac	aggaagaggc	gtgtattacc	14100
aatggtggag	ccaagtgact	gtgtagagtc	ttgaacagat	tctgtagact	tttgcgctac	14160
ttcttccgtc	gtaccagcga	tccaagaagt	aacagctcct	ctcagcttct	cgcgaatccc	14220
tccttcgcct	ttctccgcat	atgcttcacc	ctgtttcgta	gctgcttccg	agctcggatc	14280
cttaaacctt	cctaaccctt	tctccacctc	ctccgattgt	gtcactatcc	ctctcttcgg	14340
tggcgaggtt	tcgccaccgc	ctcctccaag	atgaagcttc	tcagtgaacca	cttcgcgaaa	14400
agccttgtct	tctcttcccg	gactcagttt	ctccgtaagg	aattcttttcg	ccgagacgcc	14460
cctgtcttgt	ccttgctctg	tcccggtccc	ggtgaatggt	aacttcgtca	ttacactagc	14520
tctgtctctt	ttaaccttct	cgtaaaactgg	agtcaccata	cttgcgaccg	tacttccgta	14580
tccaccagcg	gagctaggat	tttctgctcc	ttccacacga	ttctcgtggc	cgccttcccc	14640
ggagtaacct	aacttcgaag	cgacggcggt	tttcgcccgc	acagctttgt	ctgctacgac	14700
cgaagtcgct	aatgagatct	tatcggtgta	gctgctctga	ttaggctggg	gcatctcctc	14760
tcctctcctc	tgacctctgg	aatcaaaaacc	ctgagggttt	tgtatacctt	gagttctcgt	14820
cggcaaatct	tttcccagat	caaattcatt	actccgctcc	ggagattctt	tcccaatctt	14880
agatccatag	tctcccgccg	gtatgtgctt	gccattttca	ggtcttgact	tagtatcaaa	14940
accatgactt	ttctcccggg	gatctcttcc	cagtcccatg	tgatcatctt	cacctgtttc	15000
gttctccttc	ccaaaagctg	cgacactcgg	ttgttctcca	gctcctagaa	taaagaaaagg	15060
acacaagtca	aaagatatata	attcctgaat	cagaattccg	agaagaaaaa	aaacttacct	15120
ttaccggtgg	gatcagtaac	tttggaactga	taactcgaca	ttccaccatg	agatccctga	15180
gcagtcgggt	ttgtatcaag	gccatggctt	ttcttctgca	gatcagttcc	caaccctaac	15240
cttccaatag	ctgagacagt	cgatgctgct	ccaatttctc	cagtagctag	ataaagaaac	15300
agacaggtga	aaagagttga	aacttcttag	caaaaaacgt	agagctgaaa	ctttaaatca	15360
ggattaagag	actagagaaa	agatcttaca	ttttccgatg	gggtcagtaa	ctttggactg	15420
ataatttgac	aaccaccat	gagatcccgg	agcagctgga	tcttggtcca	atcctttggg	15480
tctgtcgata	ttaaactttac	tttggtttcg	agacttgtgt	tcatacaggaa	caaatgttct	15540
tgtcacatct	tctgttgacg	atagtaaaga	cacgggagtg	ttatgcggcg	tcagtgtagg	15600
agccctctct	ctctcttctt	tctccggtac	accggagtg	tttataggac	gagacattgc	15660
ttcgtggcca	actcctctca	ctggctcaga	gggttttgta	tgtgaagagg	aaacaactgg	15720
aaaagctttc	gatcctggag	ggactatctc	ctccttcacc	ggaatatgag	cttttccctg	15780
tgctgctggg	accaatccaa	aacattaaat	actctgtttt	ggtcaataga	gagatcaaat	15840
tgaagcgaag	gactgacaaa	cctgggtgcac	cgccgtggag	ttgggtgtcg	ttgtagtcac	15900
cttcatcgtc	ttcttggtct	agatcgtgat	cgtcagggat	gtgttctcca	cgatcgtgct	15960
catgaccatg	tccatgttta	gtaagaacat	tcttgatctt	ctttgctttt	tccttcactt	16020
tcttcagaac	ttttgatggt	cctttttcat	gatgcccttc	ttcctctgca	ttcaaaacag	16080
aggaacacgt	aaaaaacatt	cattaggctc	tctcacttcc	agattttaga	atatcaatag	16140
aaaaaaaact	ttacattgag	attagaatct	ggtttcgcaa	tacctggatg	gtgaatcctt	16200
attggctcct	gtgcttggtg	atgaccatga	gtacgttgca	actgcgcttg	tgaatccatt	16260
ttatttgcta	gatttgattt	tgttcttttc	ctttctatgc	atccaaattg	tttctgagaa	16320
aatatgagga	gcttcttcaa	agttttatac	agagtcagag	agtatgggaa	agaggaggaa	16380
gacgcatagc	cgaactacct	ctggatggct	gtgtcctctg	tactttatct	tacgaaatac	16440
cacgtgtcat	gccacgtatc	aggctcttga	ttgtgtgcgt	ggcgctctca	gcctaatctt	16500
tatccgagaa	gaaccgtcga	tgttaccttc	tttcacaagt	tagccacta	gccattcca	16560
acaacatgcc	gtttcgatca	ttggaaaaac	agcataaacac	agtcactgaa	atccgaaaac	16620
gacaagaaat	gatatcatat	gaatagtctt	cattgcgcaa	tgggttggtc	caacagaaat	16680
gtacataatg	ggccttaaaa	aagatccagt	atgctctatc	gcggtttaat	ggtttggttg	16740
gtggtagaa	aaacagacac	gaagcgcgga	agcggaacta	gtagatgcag	ctactacaat	16800
atccacgtgg	cgaaaacatta	gtcgtttatc	gagaactgcc	ccacgaaatt	acacgtctga	16860
atagataaat	cgaaaatgga	tcgtgaggcc	cacgtgtctg	cgaagaaggg	cccacagtgg	16920
attattgaaa	agaagaaatg	gaaaatctga	ggattgattc	gtctcagagg	ccgaggttga	16980
agattaatcg	gacaaaaggag	attagaagag	tagaaaaaac	gacaagaaga	aagaaacaca	17040
gttgaggag	agaaaagagat	atggctgtcc	ggataaacgc	gatggcggtg	acgtttgttg	17100
cgcacgcgct	ggcggttaata	gcggcgatta	tggtaactgt	ttggagtatc	agttacagag	17160
gtggattggc	ctgggaagct	actaacaaga	atctcatctt	caatgtatgt	ttctttcttt	17220
aatctccttt	aaagttttct	cttttctgtc	tctcgcactc	gcgttgactt	tttgatgtgc	17280
ttgtatctga	ctgcgaagct	tcttatttgt	tctcagtagc	tggttctgag	tgagtgactt	17340
tattatgtaa	aggagaatct	ttttgttgct	ttgatattctg	ttatagcttg	taaaatgact	17400
cttttggaag	caatagtcct	ctggtttgtc	ccaagttttg	ctatggacgt	gattttaaggat	17460
ctatgagtg	tgttggggtc	gtattctggt	tattacagtg	tgagtgaatg	tacgtaagat	17520
gatgtttcga	tcttctgggt	taggtttagt	tgatgggtatt	cacaactagc	atccaaaaat	17580
cgacattatc	gttggtgttac	caaagcaaag	gggacatctc	ttcagttggt	tttaatccgt	17640
ctgtgtttgt	gttctgatcc	attttgtttt	cttatgtgat	ccagctgcat	cctgttctga	17700
tgctcatcgg	atttataatc	ttgggaggag	aaggttaactg	ataacaacat	ctgttcaaca	17760

acgagagaaa	taagatatta	ctttcatttc	agttttgatt	agtattgttg	atgatgatca	17820
ctttatataa	acctgtttgt	tgaaaatgga	aatgcagcca	tcataagtta	caaatcgctt	17880
ccgctggaga	aaccagtgaa	gaagttgatc	caccttatac	tccatgccat	tgctctggct	17940
cttgggatat	ttggcatctg	tcgagccttt	aagaaccaca	atgaaagcca	tatccctaat	18000
ctctacagtc	tccattcctg	gattgggtatt	ggagtcattt	ctctttatgg	cttccaggta	18060
aattccatag	cgttttgctc	cttagacaaa	cattttccca	ttatacatgt	aatcagttta	18120
cataggaatc	cttttgataa	gtgtttcatt	tggttcagct	actaaatcaa	ccttataaat	18180
gtttctgagt	tctctgtatc	aaactgaaag	aacaattaca	gacagcagaa	aacactgtat	18240
ataaaagctat	tggaaccggct	gattcataga	aaatggctaa	caagttgatc	aatttctatg	18300
gaaaaatggt	tttacctatt	gttgtatatt	gttcctgacc	agaacaagag	ttttgaactt	18360
tacagtgggt	gtacagcttc	atagtgttct	tcttcccagg	aggatcaaca	aatttgaaaa	18420
gcggtattgct	tccgtggcac	gcaatgcttg	gcctgtttgt	ttacatactt	gctgtcggga	18480
atgcagcttt	agggtttctg	gaaaagctga	ctttcttgga	gaatggaggg	cttgacaagt	18540
atggatccga	agcattttctt	atcaacttca	cggccattat	cactattctc	tttgggtgct	18600
ttgtgggtact	cactgcttct	gctgagcttc	cttctccttc	tccttccgtc	tccaatgatg	18660
atagtgttga	cttcagttat	tctgtatata	aaaacacttt	ctacattcca	cgttacatct	18720
gtatcgcccc	ttgtactctc	aaaactccat	ttatgtatga	tgcatattgta	gcgaaaagct	18780
ttgtgtgtta	cggttttgct	acttctgggtg	tgtaaaatct	tcaatgatata	tgatgaatct	18840
tttaaatcat	tttcttttct	tttcttttct	ttcatattgc	cattccttta	accatatatg	18900
ctattttgct	tattgggtgc	aaagcattta	agacaaaaa	aaaaacaaaa	catttttttt	18960
ccggttttgc	cttagaaatt	tgattttacat	tacaataaac	gcaattttacg	tcgttgtttga	19020
tggaagaaaag	aattcagcag	aagaattaca	atctgaagcc	tctctataaa	tatgatgctc	19080
ctgcttctta	catttggaac	caaacacaat	gtcgttaaga	gtccagttgc	tggtgttgat	19140
catcatttctg	ttgtaattgga	actgatcaac	atcaccattt	tcttcataag	ctgagagagt	19200
ctcttcgaca	tttggagctt	gactgtgctt	agagtcggta	aactcagagg	aataatcggt	19260
gtggggatata	gaagaagaaa	gccattcaga	gaagaaaagc	cttggaaatc	caggagcaga	19320
agaacattga	tggtctgttat	ttcgtgtgct	ttcttgtgag	ggagatgaag	atttgttctc	19380
tagaagtctc	tggaaggaga	acacgtgatt	cgagatcaag	gtttccggat	ttctttttcc	19440
acaagcaaca	agtgatgatg	atgaagacga	aggaggggaa	atagattttg	catcttgtaa	19500
gctctgagac	ttgagccatt	tctttttcaa	atgagagtgc	caatagtctt	ttatctcatt	19560
gtctgttctt	cccggtaaga	atthagctat	ttgcgaccac	ctaattacac	ctaaatcatt	19620
agtctctcta	taactagcat	ctgctaaaac	aatagggtta	ggtcttagag	atacacttac	19680
ttgttaccba	aggaagaatg	aaacgtcaag	atagtctctt	cttcttctgc	actaatcata	19740
tccctcttta	accctgggtc	taggttaatta	atccatctta	atctgcagct	cttcccattc	19800
ctttgttaacc	ctatcaaatt	aaatcccaac	aacaattatc	aaagttgact	cagtttgaga	19860
aactaaaaac	taataaagaa	gaagatgaaa	gagagaccag	ctttgatggg	aacagtggtc	19920
cagcaagaat	ggccataaga	gaggatgaag	ctccttagct	tctcgtcttc	ttcagtgac	19980
cataaccctt	tcctatgtct	ctctccatat	ttcgtcttcg	ccatttctct	ttagtcagct	20040
gtctgtctctg	atacaagaaa	acatgtctca	atactatata	tggtgattga	gacaacatat	20100
atatcaccba	acgtccacag	atagagccta	catacttggt	gttaagaaat	gaccaaattg	20160
gcctgcttag	agtaaatgac	aaatgacata	tatatctcta	tttttatgaa	aatttgggat	20220
ataatttatg	tgtaattttc	ttatgagtat	actgtatgca	ttgtataaag	cagtgaggag	20280
aaaagtcata	atggaatatg	taaggattaa	ttaggtgtca	aaagtctgct	tggaataaatt	20340
taaattattg	atataatggt	ccaacttaaa	ataaattagc	aattttcag	atatataaga	20400
tttgagattc	ctacctataa	aaaaaaaaaa	aaagaagaat	ctttgcttgt	ttttgttctt	20460
tcacttttgt	ttcttattgt	ttgttttctt	tatatattact	tcattttata	tggaacgatc	20520
cttaagaatt	tacacactaa	tcagataaca	tcttcataac	caaaaatctc	taaaatgtcg	20580
gcaagaattt	tataattaac	acttctttta	tttatgttta	aatcgctca	atgagttttt	20640
tggttagaaa	cgatcatccg	ggtggaataa	tctgtctgat	tcaatccaat	gattgtgaat	20700
aatgaagtaa	tgattataga	gaatcatcca	atctgttaat	cttttcgtaa	agcatcatta	20760
gcaagcagac	aaattgcatt	tgctaataca	agtacttgaa	ataattatta	tatgatttga	20820
gagctctttt	tctcttaatt	ataaaatttt	gtagtgaagt	caacattgag	ctcctatttg	20880
ctgctagttaa	ttatttcata	tttttctctt	tcacgatggt	tttcttacat	tcacactgac	20940
aagtggaacca	ataataagag	ttatttgagg	aatatttgta	atttcaacaa	tttgaattcc	21000
ttctgtcccg	atcgaaatgg	cctgtcccaa	ttttaaaaat	actctgattt	tgttttttac	21060
ttgttggtct	ttttggcctg	tggaataatga	cgagtaaaga	aaattgagag	ggaaacaata	21120
aaaaagtgtc	taccttgctt	tggtcgtctt	gataacataa	tataatttgc	cgtcaaaacta	21180
atccccatgc	aaacacgact	aataaatttt	atacatgtaa	tgttatgatg	acttaatcct	21240
tagccctcgg	agaataaatt	ttatacatct	aatgttatga	taactaggat	acttttagatt	21300
gttctgtctac	aacaaaactt	ctcctccttc	gaccattagg	ccttggtgga	tggtgataaa	21360
actttatgaa	atatgttgac	aaagaagggt	aaacatggct	tagttttatg	caccaaataa	21420
aaaacatcat	tcaacattga	atgaaacaca	tgttttacgg	ttagagaaga	caggcgttag	21480
tcaaacaatg	acaaatgctt	ttaaaaatga	gatacaataa	tctttgtttt	ttgtgctgac	21540
actttgaacc	ggttctacat	aaaagccaac	aagtcataaa	tgcaaaaaac	ccaactcgca	21600
tcattggaaa	accccatctc	taatccggta	gctacagctc	tctaccgtac	ctaagtaact	21660
tacctatctg	ataggttcct	tgttcttgaa	cacaccgagt	cgaaatcacg	aactaatcat	21720
gttgaaatgg	aatctggata	gctgctgcgg	aatgggtgat	ataaccgggc	catatctctg	21780
tttcaagaaa	ataatatacg	gttagatggt	tgaggtaaaa	accattttcc	aaagggtggg	21840
attctggata	taagcaaaac	ctgaacattg	tcataagatt	cgaacaaagg	gacggccaag	21900

agcttcaaat	ttttgggcac	agcaaaagtac	tctttctcag	acaagtgaac	aatgtagagt	21960
ctcttgcaat	cctgccattc	cacaaaaaag	aggagatata	aggagaagag	taaagggaaa	22020
ttctgagaag	ctttacattg	tgTTTTTTT	ctacctttgg	tttcgtgatg	tgaggagggc	22080
aatacgggta	catcatgggt	tcaaagtttg	gacgccacca	tgtcgcaaca	cattctccta	22140
cctgttaaag	ggacataaag	tacccaacgg	atcagggaca	gagctatata	cataactcaa	22200
tcagacaact	gtggactcat	ggcaaagtct	tctttcttca	tctagtacgt	atatgattct	22260
ctagcaaaag	taccaggcct	atccttgttt	tcttttatga	acctcattc	ctggcatgct	22320
taagtgtaat	aacaaaaata	atttcaattg	cttctcgttt	gctttaagag	caagcacatg	22380
caacaccaac	ctagttcttt	taaggcatct	atctacccct	aaatatcttg	tcactatcac	22440
tcaacgaaaa	agaagaaacc	agaatagtac	cgtccagtca	ggtacaagag	cagccgaatt	22500
gcctccaagt	ttactgggtca	gctttctttt	cagaccatca	gcttctgcag	acacaacata	22560
gtacacccaa	aacttaagca	gccaagaaac	tcataacagt	gtagaaagta	ttactaacgg	22620
gtggtaactg	tataccattt	tcaccaggct	tcaggcgctc	acctggaagt	ttgcagaatg	22680
tgttaccaat	ttgtagcaga	agtatatgag	gatgggtgtg	ttcttgacc	taatatgtta	22740
agcagcataa	ggtattaaga	agaatcttag	gttagagaga	tatcactaaa	atcaaataca	22800
attaggtggg	agtaattgct	agactcaaac	gcaaattatt	tgaagcatat	gatactccat	22860
gggaaaaaat	taaagcttgg	aaggggcaatg	gtgcatacaa	acaatgaaag	aaacggaaca	22920
ataagatgca	tcaataaatg	gcacctttca	cttttatgac	tcttattaag	tgcaggttaa	22980
gttcattgga	tccataaagc	ttgtgactat	atattaagggt	cagattaatc	cacttatgtg	23040
attcgagctt	cttcgtaata	taaggttacc	caatcagtac	aaaatttgtgt	tggagatggc	23100
aactagaaaa	ggaagtagat	gacttcaatc	aaaatatcac	acagatctat	atctctgcca	23160
agttttaaat	gatacatttg	gtagagaaca	catattttaca	gagaacgcta	cgattaagta	23220
caataaaagt	gacacttcag	tggcattatg	tatatgacag	tatggccact	caagtcctga	23280
accacataac	tgtaccaccg	attttaagac	agtgggcagt	taaacacac	agagaaaact	23340
acagaagagt	tggataacaa	gtagagcaga	tcgaaaatta	tcataccagt	agaatccctt	23400
caacgctagt	cctcatgccc	tctttcatat	agctgcaaca	ccccattaag	aaaacaagaa	23460
agagataatc	agactccaga	atgtcttaag	taagagctat	caaattccag	acttcatgta	23520
tccatgtaaa	aagcatgaga	ctttacttgc	aaaactaaag	tattgtataa	catatacagt	23580
agctatatct	gttccctaatt	caaatcattc	actggaaatt	taaatagcct	ataagctgtt	23640
tttgttcaca	aaaaaaaaaac	acagatcggt	ggaagaagtt	gttctaacaa	tatatgtacc	23700
accaagttgt	agttttgaaa	ccttaaagtt	gtgtaaaatg	gccaaaagat	tattccttta	23760
aggagaagct	agtaaattca	gcagcagcga	gaaagcagat	aagcatttag	aaaacatcga	23820
gatcatgatc	taagaatgta	aaagcctgga	gattttctagg	gttttcaatt	ctcaggcatc	23880
ttctccagca	gtagctataa	gaagaaaaca	aaaaagagaa	agaaggaaag	aggaatcgta	23940
cttgattttc	atacagcga	gccggctggc	gacggagggt	tccttttcca	gtctgggttc	24000
cttagttccg	aagctgtagt	tcgaaagcgg	gtacgtgttc	accacctgag	acatagccat	24060
ctctctctct	caacagaatc	cacttagaca	aaatatgggt	aaatcttctt	cgccgtgtgt	24120
gtttctctgt	ttcgatctat	cactcagcgg	tggggacgga	cggcaacggg	gagagaagcg	24180
atctcgacgg	agaattaatg	acaccaccaa	cttctagagt	atactcattt	gttatagtgg	24240
cactttaggg	ccatttaaaa	aataccggcc	catttataaa	gacctggccc	ataataacgg	24300
ctccgaaccg	atggcttcgt	cactttgttg	ttcagtgaca	gtgatggatt	agagagattg	24360
gcaacctaa	aaagcgcgcg	aaaattggca	acccaagttc	gccatagcca	cgaccacgac	24420
cttccatttc	tcttaaaccg	aggagattac	gaataaagca	attatgggca	agcaaaagca	24480
gcagacgatt	tctcgtttct	tcgctcccaa	acccaaatcc	ccgactcacg	aaccgaatcc	24540
ggtagccgaa	tcataaacac	cgcacccgaa	gatatccgcc	actgtatcct	tctctccttc	24600
caagcgtaag	cttctctccg	accacctcgc	cgcgcgctca	cccaaaaagc	ctaaaacttc	24660
tcttcacact	caaaacccag	tacccgatcc	caattttacac	caaagatttc	tccagagatt	24720
tctggaaccc	tcgccggagg	aatatgttcc	cgaaacgtca	tcatacgagga	aatacacacc	24780
attggaacag	caagtgggtg	agctaaagag	caagtaccca	gatgtgggtt	tgatgggtga	24840
agttggttac	aggtacagat	tcttcggaga	agacgcggag	atcgcagcac	gcgtgttggg	24900
tattttacgt	catatggatc	acaatttcat	gacggcgagt	gtgccaacat	ttcgattgaa	24960
tttccatgtg	agaagactgg	tgaatgcagg	atacaagatt	ggtgtagtga	agcagactga	25020
aactgcagcc	attaagtccc	atggtgcaaa	ccggaccggc	ccttttttcc	ggggactgtc	25080
ggcggtgtat	accaaagcca	cgtttgaagc	ggctgaggat	ataagtgggt	gttgtgggtg	25140
tgaagaaggt	tttggttcac	agagtaattt	cttggtttgt	gttgtggatg	agagagttaa	25200
gtcggagaca	ttaggctgtg	gtattgaaat	gagttttgat	gttagagtcg	gtgtgtgtgg	25260
cgttgaaaatt	tcgacagggt	aagttgttta	tgaagagttc	aatgataatt	tcatagagaag	25320
tggattagag	gctgtgattt	tgagcttgct	accagctgag	ctgttgcttg	gccagcctct	25380
ttcacaacaa	actgagaagg	tacgtttatc	tgtgtacgag	taaatattac	taattcaagc	25440
attgttgatt	aattttgaac	aattttagctc	ctcagttagt	tttacaagat	tctgtctata	25500
ctaataccct	aatccttctc	gatgaacagt	ttgacaagaa	tctttgtctg	tatgtataat	25560
cactatatgg	attagttttg	aagactagaa	ctctctgtct	tggtcgatgt	gtatacatgt	25620
actgatagat	gttcgtgtgg	tatctttgtt	tggcagtttt	tgggtggcaca	tgctggacct	25680
acctcaaacg	ttcgagtggg	acgtgcctca	ctggatttgt	tcagcaatgg	taatgcagta	25740
gatgaggtta	tttcattatg	tgaaaaaatc	agcgcaggta	acttagaaga	tgataaagaa	25800
atgaagctgg	aggtcgtcga	aaaaggaatg	tcttgcttga	cagttcatgt	atgtcatttg	25860
actttctaaa	aactttccct	ttattttatt	tttttatgat	atctgttaat	gcgatattgt	25920
taatgaccac	atcttgcttt	caaaaagttt	ttttcatcta	ttaaatgctt	actgcaattc	25980
ctgctaattt	attccttcgt	tgatgggtgca	gacaattatg	aacatgccac	atctgactgt	26040

tcaagccctc	gccctaacgt	tttggcatct	caaacagttt	ggatttgaaa	ggatccttta	26100
ccaaggggac	tcatctcgct	ctttgtcaag	taacacagag	atgactctct	cagccaatac	26160
tctgcaacag	ttggaggtag	tttccgcttt	atltggctag	tcacatgttc	agttttaagt	26220
ttcctaactg	agtttctctt	aaaaataattt	ttatatatat	tcagggtgtg	aaaaataatt	26280
cagatggatc	ggaatctggc	tccttattcc	ataatatgaa	tcacacactt	acagtatatg	26340
gttccaggct	tcttagacac	tgggtaagac	acaatctctt	ttcttcttag	attttccgca	26400
aaagggcttt	gtttatattg	agttctatag	atgcagtaag	tcgtcttata	gtaaagaaaa	26460
aaaagctttt	actggcatct	ttcagttttt	gaaggggaga	gatttgagat	ttctgtactt	26520
actcctcatt	gactttttgc	taagtggtag	ggaaattttt	taaaagatct	cttatcatga	26580
tttgtggaca	ctttcatttc	aacagggtgac	tcactctcta	tgcgatagaa	atltgatatc	26640
tgtcgggctt	gatgctgttt	ctgagatttc	tgcttgcctg	ggatctcata	gttcttccca	26700
gctcagcagt	gagttgggtg	aagaagggtc	tgagagagca	attgtatcac	ctgagtttta	26760
tctcgtgctc	tctcagtcct	tgacagctat	gtctagatca	tcctgatattc	aacgtggaaat	26820
aacaagaatc	tttcatcgga	ctgctaaagc	cacagaggta	aaaatttggc	ctgtcttttg	26880
ccctcttatg	tatgtgcctg	tgtaaagttag	ttcaactcat	atagtgcatt	actgtaataa	26940
ttttgtccac	aaaggaagtt	taaatcgccc	ccatgtatat	tgataaacca	agtctaatac	27000
ttaaaaaatc	cctctgaagt	gagttggcaa	ataatacagc	gtattgggtat	ctttgtgata	27060
tctagtcata	gagatacttg	tttcatgggt	ataggatctg	ttagacatta	ttcaatatcc	27120
tatcctcttt	tctcacgatg	atlttctgtt	tctatatagt	catatgtaaa	gctataaaca	27180
tcaccgcgcc	aattcttagt	tatcttgatt	aagaaaaata	aacaaagggg	agaggaggat	27240
agagtgcaga	attatacgag	ttttgcttcc	cacctctgtt	tttggttaact	agctcttgct	27300
ttacagctcc	tctcacctg	gcttgagggt	tcttaacttt	ttggatgaaa	agttcattgc	27360
agttatggaa	gctattttac	ttgcggggaa	gcaaattcag	cggcttggca	taaagcaaga	27420
ctctgaaatg	aggagtatgc	aatctgcaac	tgtgcgatct	actcttttga	gaaaattgat	27480
ttctggttatt	tcacccctg	ttgtgggtga	caatgcggga	aaactctctc	ctgccctaaa	27540
taaggaagcg	gctgttcgag	gtgacttgct	cgacatacta	atcacttcca	gcgaccaatt	27600
tctgagggtt	tgtatcttgt	ttggaaattg	atactatcta	cggcctctct	ctttatgttc	27660
tgtttttgtg	catcacacag	cttcttaaac	ttgatttgct	tatcataaat	taacggttta	27720
gtggcgattt	tgttccataa	ctcagtttgt	tttttcgcaa	tgtacagctt	gctgaagctc	27780
gccaagcagt	tttagtcac	agggaaaagc	tggattcctc	gatagcttca	tttcgcaaga	27840
agctcgctat	tcgaaatttg	gaatttcttc	aagtgtcggg	gatcacacat	ttgatagagg	27900
tatcctctcg	agaaactcgt	aattttttaga	tgatgtctgc	ttccgcaaga	gtgcagcttt	27960
cttgattttt	ttataaattg	cacctaaatg	gatacccaat	aagtatttgt	gtgtatgggg	28020
atgagaataa	gtttcaagaa	ggtactttgt	gttggtttac	ttttgggggt	ttactgttct	28080
cactttcttt	ctcgtgcaca	tatccattaa	aagttttaga	ctgctctaga	acctaatatc	28140
ttctttggta	ccaagtataa	catatgtgca	tatgatactc	tcactcttga	aagtttgtgga	28200
cctttatttc	tgatctgaaa	ctaaggcttt	gtacagctgc	cggttgatcc	caagggtccct	28260
atgaattggg	tgaagtaaaa	tagcaccaag	aagactatcc	gatatcatcc	cccagaaata	28320
gtagctggct	tggatgagct	agctctagca	actgaacatc	ttgccattgt	gaaccgagct	28380
tcgtgggata	gtttcctcaa	gagtttcagt	agatactaca	cagattttta	ggctgcggtt	28440
caagctcttg	ctgcactgga	ctgtttgcac	tccttttcaa	ctctatctag	aaacaagggtg	28500
taacgaagga	acaaaccaca	ataaatgttc	ttgtactcac	tgcttttcaa	tttgtaactc	28560
tggcttccaa	ttttttccct	ctgcagaact	atgtccgtcc	caggttttgt	gatgactgtg	28620
aaccagttga	gataaacata	cagtctgggt	gtcatcctgt	atgcatcttg	ctctcgcttc	28680
tatttctttt	tctttctatt	tttaaataag	ttggaatgat	tttgttcatt	tcgtttttaa	28740
aatttgccag	gtactggaga	ctataattca	agataacttc	gtcccaaatg	acacaatttt	28800
gcattgcagaa	ggggaatatt	gccaaattat	caccggacct	aacatggggag	gaaagagctg	28860
ctatatccgt	caagttgctt	taattttccat	aatggctcag	gtaacataaa	cattaacagt	28920
agaaaaaatc	tcttgcatat	gttgaaatgc	taaatgattc	aagatattcc	cattgggtttt	28980
ccaggttggt	tcttttgtac	cagcgtcatt	cgccaagctg	cacgtgcttg	atgggtgtttt	29040
cactcgggat	ggtgcttcag	acagtatcca	gcatggcaga	agtacctttc	tagaagaatt	29100
aagtgaagcg	tcacacataa	tcagaacctg	ttcttctcgt	tcgcttggtta	tattagattga	29160
gcttggaaga	ggcactagca	cacacgacgg	tgtagccatt	gcctatgcaa	cattacagca	29220
tctcctagca	gaaaagagat	gtttgggtct	ttttgtcacg	cattaccctg	aaatagctga	29280
gatcagtaac	ggattcccag	gttctgttgg	gacataccat	gtctcgtatc	tgacattgca	29340
gaaggataaa	ggcagttatg	atcatgatga	tgtgacctac	ctatataagc	ttgtgcgtgg	29400
tctttgcagc	aggagctttg	gttttaaggt	tgtcagcttt	gcccagggtat	actccctccc	29460
tcttttctca	tacgcaagtt	tataccaaca	tacagaatga	ttagaggtag	gccaccctag	29520
aggccttaaa	gaacgcatta	atcactgaaa	tatggctgtt	tttggtccaa	tcatttatga	29580
agctgactca	catatatact	tgactgtaga	tacctccatc	atgtatacgt	cgagccattt	29640
caatggctgc	aaaattggaa	gctgaggtag	gtgcaagaga	gagaaataca	cgcattgggag	29700
aaccgaagg	acatgaagaa	ccgagaggcg	cagaagaatc	tatttcggct	ctagggtgact	29760
tgtttgcaga	cctgaaattt	gctctctctg	aagaggaccc	ttggaaagca	ttcaggtttt	29820
taaagcatgc	ttggaagatt	gctggcaaaa	tcagactaaa	accaacttgt	tcattttgat	29880
ttaatcttaa	cattatagca	actgcaaggt	cttgatcatc	tgttagttgc	gtactaactt	29940
atgtgtatta	gtataacaag	aaaagagaat	tagagagatg	gattctaatc	cgggtgttgca	30000
gtacatcttt	tctccacccg	caaccctgtt	tcttttccag	ttgattttcta	gtagttatta	30060
gaattctgga	atgcattttt	caactgatat	agtgaggcat	gatctccatc	aatgttggaat	30120
acgaaatata	ttgtttctaac	tctctattaa	ttctgggttg	taacaatttg	agagttttcag	30180

aaaaggaaag	aagaaaggaa	gcaagaaata	tccagcaaac	agatcaacaa	acgcataaaa	30240
aagttaactc	agaagagtct	tgggtggaaa	agcaaaactag	ggcacaagcc	aatgtcgaat	30300
ttcttgcgga	acaacggaaa	ctggagctgc	tgatgggttac	gtctgtaaat	ctaacgcgga	30360
tttgatcttg	acaatagtat	gagccatgag	tgtctcgaca	cttttgacag	taccttgaat	30420
gagtgacgca	gttggtattga	tgcccaccaa	gatctgaagt	ccaaatgtca	gtagacatcc	30480
tccaccagta	ttgcctctat	gatatgaccc	atctactcca	tctggcacta	tcgaaaatcc	30540
cgaagggaag	aacttcacag	aatctgaatt	ttcacctctc	ttgaccagct	caatagaatt	30600
gggttccact	gggtgcataca	ccaccattgc	acctgatgca	tcattccaaa	tctcttgccag	30660
aaccaggcata	ccattattct	gtttgcattg	caaaactcac	gaaaatcaat	ggaaaacatag	30720
acaaaacgac	actcattaaa	ccaaaaataa	atgttttgaa	actcacaacg	attttcagaa	30780
gagagatgat	gtttccatgg	cgttttgctt	tttgaatccg	gattgtttct	tccatggtag	30840
tatcattggg	caagatatcc	cactcgtgtc	tgaaactcag	gtggctaatt	aaagcaaaaga	30900
gtgtatgctg	gttcaactggg	agccaaacag	aagtggatgc	actcagcaca	atcccagtta	30960
gctcaccagg	ctcattcacg	ttctttcggg	tcatgaaact	catgttttgt	gccacattct	31020
ccacctgaat	tttctgccac	ttgtccaccg	aaggactcgt	aatacctctg	tagtagttga	31080
gagtcattcg	ctgtgctagc	ttcactatct	cagttgcacc	ttttgcagac	aatcctatat	31140
cgaaaacata	tatcacaatc	aaggcctgtc	caaatttagt	ggagaaccga	aaatgacctt	31200
aaaagtagtt	gtaatgagat	ttattctata	atttaaatag	ctttcacctg	gactaatttc	31260
agtcaggttg	gtagatgaaa	gggtcgagag	gcttctgcag	tgtctctgca	gcgtcgcgag	31320
ccatctcttt	gcacctagcc	cgatcccata	gccaatcaaa	ggctggtaga	gttgggtgat	31380
gtgactctca	ttatattccg	cttgttcaat	ccatgtaacc	tgtgaaatca	aatctctatg	31440
tgttatacat	gtgggtgaata	taataataac	cattaaccat	ttatttatgt	ctccacagta	31500
caagatgctc	tgatagatca	ttaattatga	ttgcgagtaa	taacaagtga	accaacatat	31560
attgttcaaa	gaacaggatt	cagaagtaac	ctgggagtag	ccattggaca	ggctcgtctat	31620
gataaggcct	gagggtagcc	tcttagaaca	accatagggc	agcaaagtcg	gatttttagt	31680
aggagtaacg	tcgacgacca	cccataagcc	ctgtctgata	tctttgcagt	atctaataaa	31740
cgttactttt	ctctttggta	ccagcggaga	aattacttga	aattctgctt	gaatctgcca	31800
aaattatatg	atcacaaatt	tgaaatgttt	ctacttctct	tggattatca	accaatatag	31860
acgactcaga	aaactatata	tattatactt	gttggagtga	gccacttttg	gttccaccag	31920
aaacggtaga	tagcacttta	tgggttgatg	ccacagggac	tataggtgca	aacacgttga	31980
cccatttgcc	ctgttttaaaa	aaaaaaaaaa	aaaacttggt	aacatttcat	gtacacaacat	32040
ttcactaaaa	aatgggtggg	ggtttaaagg	ttattactgt	gtccataaga	gtcttgacca	32100
gagtcacgca	agtcattggg	actaaacctt	tagctcttga	agcctccaca	atctgcccgg	32160
gagggtttgt	gacattgttg	aaagaacctt	tatacttctc	atagatcttt	gatactcctt	32220
tggatctaac	gattggatct	atcatccaaa	atggacagtc	cacttctccc	aatgtaatca	32280
actctctcaa	agccgtaatg	gcaagattca	gaaaatttga	tgtctccttc	tcagacgtcc	32340
tagttccacc	actaaaatca	agtactgggt	ttgcatttat	tcttgatta	gaggaagaag	32400
aaggcgctg	ttcggatgta	ctgaccatcc	tttgtttggg	atgagaaagg	tatctggaat	32460
tgaactgggc	tatctcccgc	tccaagttag	cattctcagc	cataagtttt	tgcacctcat	32520
attcagtgtc	tcacacaatta	gttgccctac	cacaaatggt	gcataaaacta	cgtagcatgt	32580
cgcttctaa	ctgatctga	gttgctagca	atctgtcatg	ctcttctcta	agagttacat	32640
tctcaagggtg	gtcattattg	atctgcttac	ccaaaaaacc	acactcaata	attataccat	32700
aatcaaggca	gattttgagg	atgagagaga	gagggtggtta	actatataca	gtatttggtt	32760
ttaacatagg	gcagaaacat	gggtccataat	acgggtacgtg	caaagaataa	gaaaagacac	32820
agccacatgc	atgtatacac	ttctgtatct	tttgggtacct	tctcgagatt	tcttttatct	32880
tggaaaccaat	tcttgacttg	attgacaccc	atattaaagg	tttgtccaag	ctcgtacctc	32940
tgttcttcag	tgggatgagg	attttccatg	tagaaactac	actcatttta	aagtaagag	33000
caaagtaaa	agaaacattc	caaactcaaa	ataaaaaaat	aaaaaaaata	ataggaaatg	33060
ttgcatgatg	atgaaatgaa	gaagaaagtg	aacaaacttt	tcaagttctt	gagtttgata	33120
agcagtgccg	ctatgggttc	ttctcatcct	tccaccatct	tgatcattaa	caccagacat	33180
atcattaatc	atatcaatct	catcgccctc	agcttcacct	gggttttgaa	tgtttccaac	33240
cgcataccaaa	tcaccttgct	cattcatttt	cctcaactgc	aataacctgg	acattgcata	33300
ctattagtag	tcgatataga	gggttagctc	cctggacata	tagtgagtgt	gatcaaatga	33360
atacacgtat	aaactttata	tttaaccacca	aacaaaaaag	acttaaaaag	ttttttcttt	33420
ttgggttttaa	tgctgaagat	tttatcgata	aattatgccc	caaaaacaca	atgttaagat	33480
ttactacca	cctaagatta	tttactatct	cattccaaa	tttgacaatt	gcaacaactc	33540
aaaagagaca	aagccaatct	aaactgaaaa	atacaaaaa	acaatctgct	ttatactgga	33600
aaagaaatac	aaccagaata	aaattcaagt	agagaatgaa	ccagtaaatg	gttctttttg	33660
gaagaagaga	attaaattaa	catttctagt	gtctcgacaa	cgaacaagac	aaaagaactc	33720
aaaaatttg	gatacccatt	gtagagttaa	cacaatatct	ttcaaagtac	tttacacata	33780
agcgaaaaac	agacaaatcg	ggaacccaaa	tcattctcta	aacaaaatgt	aaaaaaatct	33840
gatttttggtg	tgaaaaaaac	aacaaaaaat	tgattgtcag	tatcctacaa	atcgataaat	33900
cgtaagaaga	aaacataaaa	ataatattaa	agttgtgtgc	taaaagcaac	cttaaacacac	33960
caaatagcac	ttcgaccaat	gtcgaaaagc	aaaaaccgta	aagcggtgct	cgtatgaatg	34020
ttgaatggga	taaagagcgg	cgcaagatct	gatatttggt	tggaaaaaac	aacaataatc	34080
tgattgtcag	tatcccacaa	atcgataaat	cgtaagaaga	aaaacataaa	aataatatta	34140
aagttgtgtg	ctaaaagcaa	ccttaaaaca	ccaaatagca	cttgaccata	tggcgaaaag	34200
caaaaaccct	agagcggcgc	tcgtatgaat	gttgaatggg	ataaggtata	tatgagattc	34260
tcgacggaaa	gatgtatggg	cttcgataaa	gaatatatga	gattctcgac	ggaaagatgt	34320



atgggcttcg	gcccataact	ctttgatatt	agtatagaac	cataacaaaa	gaaaaaaaaa	34380
aaaccttaaa	caagtaaaca	ctaaacccaa	ttgattcttt	actaaattta	gtaatcaatg	34440
gttattgtga	aatgaaattt	aactttttctt	tcatatgaaa	aaaaaaattg	aaaccatcca	34500
tggatggcct	agtttttattt	agataactaa	atatctatgt	tttgaaatag	taactctatta	34560
catgacacaa	gaacgaagat	taactaaatc	gagaaagaaa	aaaaagtgtg	gatttggtag	34620
acgctgaata	tataaaaaaa	ctaaagtgat	aaaacaaatt	gtcttttttaa	aaaagtatgg	34680
aattttcaaa	tttcccattc	tttcggtata	tgatgagaac	cttcacatgg	atttttatttt	34740
taacaacaaa	aatcaatggt	gaaaagtgtg	tgtacctatg	aaacaaaatc	agggtcttaa	34800
ctagtttttt	gttttggttt	tggttttaat	cttttctagt	tgctttgctt	tatttataag	34860
cgcagatgag	gaagagaaa	gcgaaggcac	atcagctgca	tgggacgttg	ctgaagctgt	34920
ggcgctctca	ttgtgtgata	tcttcaatct	ctgttaatag	ctttgtaatg	gtggtaacaa	34980
tccaaaaata	cccaattaca	atcttataag	taccaatcat	catccatcct	atggtttttc	35040
tttttttaaac	aaaatccgat	ataaaattaa	taaaaatcta	ttgtattaac	actaaaggtc	35100
tattttacgaa	aattttatagt	tacaatgata	tgaaatgata	gaaaaaatga	aagattataa	35160
aattgtattg	accgaaaaaa	gaagtttaat	atatatatat	atatataggg	atactcatta	35220
gaaaatctat	atgcttagtg	aaaaatgact	ccttcccata	atattaaaaa	cagataaacg	35280
aaattgttaa	ctaaatttat	tcaacaataa	taaactttta	acaatgacag	gtcacacttt	35340
aaatggaaat	atgcattgat	agactttctc	ggttgaagtt	gtaactctag	atttattttt	35400
gtagaattta	aagatgtatt	ttgttccttt	tgttgtgagc	tatgaaatta	ataccttata	35460
attgtagggt	ttaggaagcg	gttgatgtat	agcatgtgca	gagtaagctc	gaaatggctg	35520
agacgaaaaa	aagtgtcgcc	acaatgattt	actttttact	actatacttt	tgatcattgg	35580
gacctaatgg	atgaatgttg	tgtgttgtgg	acgagtttat	gacacataac	aatattgtag	35640
acaaattgtc	taatttgagt	agagatacta	aaatttatct	ccatataatt	gtatactgta	35700
tatgtataac	aaataattca	attcattggc	ctaagatggt	ttattgtatc	tttgtagaat	35760
tttacacttt	agagaaaaat	catttgcaata	actcgatgaa	aaaaaatggt	tatcttatcc	35820
tagttacaac	taactatcta	tctatctctt	tgtggttagga	gatttgcata	tgatcgaacg	35880
attcatatgg	tgccacgtaa	ctatggtccc	acttctatta	cgagatctac	taagacatca	35940
gcacgtgtcg	gtgtcgtttg	atccacgagg	tcggtgacgc	ttagagctag	ttgaccggta	36000
cagtcgggtta	ttaccgggtta	tactatatgt	atgttttttg	gtcaaagatt	tggagctatt	36060
ttatagttaa	taaatcaaga	gttttttttt	tccacaacta	ggctcttaatt	tgtgatttgt	36120
tttttcttcc	atttttccaa	aattctctta	tcaattctcag	gttagtattt	ttgttactgt	36180
ccctagcttt	tgactattgt	actactgtat	accctttttt	tttggcttga	gaaattagat	36240
tttgttatgt	ttgcgtaaaa	tatttgtgaa	ctcaaaaaata	aaatctcttt	ttttttcatt	36300
gccgatattt	tttcttccat	gaatgctgct	gtaaagtatt	aatttccctc	tctactgagt	36360
ttcttccaaa	tttctgattt	ttgggatttg	tgcaactccc	aagtcgattt	cagtttcttg	36420
gttttgattt	gagttcgccg	attggatttg	aagttttagt	ctttgttggt	aagttctatc	36480
ctttttgaga	tgttgaattt	gctcttctga	taattagggc	ttctgtattt	tagcctacca	36540
atctttgatt	tggttttcat	ttccttcagc	taaatatttg	taattcttgg	atcctgaatg	36600
attaaccatc	ttagtttgat	tggtgaaagt	ataccatagc	tgcttaggat	ccgtttggct	36660
ttgttatattg	ctcagattct	gaaaggaagg	gtttaaagtt	tcaagctttt	cattccgctg	36720
aatcagtcct	tgtatttgga	cggcttgatc	tgttatctgc	tctcgtgggt	ggggcatgaa	36780
cagaacgggt	gtctcgggag	ctgttgaaatc	gagttttctca	ttgactgatg	ctgttggcac	36840
ggaagctcta	aatatgcaga	ggagcagtg	catcaataat	aatatgcgta	tcccaacatc	36900
accgatgtct	ttctcctcga	atagcgttaa	cataccgggt	tcatttggtc	ttgatggctc	36960
tgctgcttca	atgcaacact	tacctcagca	gcagcagcag	caactactac	aacagcaaac	37020
aggacaaggt	tctgttccaa	tgagggagaa	cagttattcc	catgtagata	agaaaccag	37080
attagaagtg	aagcaagaag	atatgttgca	gcagcagatt	ttacagcag	tgatccagcg	37140
tcaggaagccc	acggggagga	atccgcagat	gcaagctttg	cttcagcagc	agagactgag	37200
gcaacatcag	cagatgcttc	aatccatgtc	accctctcag	agactccaac	ttcagcaaca	37260
gcagcagctg	agacagcagt	tacagcaaca	aggaacccaa	cagattcctc	ctaattgtacg	37320
tccttatgaa	gttggcgctc	gtgctcggaa	attgatgatg	tacttgatc	atctgcagca	37380
acggcctgct	gtaagctaat	cctaacctat	ggacttccag	ttatttcatc	acatctatgc	37440
acccatcgct	gatacctctt	ttctaggaaa	attgcattac	ctattggagg	aaatttgtgg	37500
cagaatactt	ttcacctcgt	gcaaagcaga	gatttgtgct	gtcacagtac	gaaagtgtctg	37560
ggcaccatgc	gcttggcatg	ttcccacagg	cagctccggg	cagtttattt	ttagctctgg	37620
gtgttttgat	tttttatgat	atcagtggtc	tgcatccctg	tatcttttagc	catacacacg	37680
gtttctccac	ctgtactatt	tatgaatttc	acttcattga	tttctcaatt	gataagttcca	37740
tcactttctc	attgtgtttg	caggatattg	ggcagtggtg	tctttgcggc	accaagtcctg	37800
gaaaggggatt	tggtaagtta	gttgcaaaat	tcacttttgt	gtgtacttat	atatctgtgc	37860
cttcacttga	gcacaatgaa	gcaacttaca	catgctaatt	ggctctcttt	tattgtttat	37920
aactattaag	tcaaaatagt	agctaactgt	cacttctcgt	gttaatccgc	agaggcaacg	37980
tttgatgtgc	ttgccagact	aattgaaatc	aaatttgcaa	gtggatttat	tgatgagctg	38040
ttatatctgg	atcacctcgt	agaaaacaga	tttcccattg	gactgatgat	gttagaatat	38100
agaaaagcat	ttcaggaaac	tgtacacgag	cagtttctgt	ttgtccgtga	gggccatctt	38160
cgcatcatag	tttctcaaga	tttgaaggta	tctagaacaa	ttctctgggt	ccaaattgtg	38220
taaagcgatg	aaaaaatcag	gcaccagtat	gctaattgct	agttaatctt	gactttgctt	38280
ctatctagat	actttcttgg	gagtttttgcg	ctcggcgtea	tgaagagctt	cttcttcgca	38340
gacttattgc	tccacaggta	ttctaattggc	acgacccttg	cgtttattaa	ttggaactta	38400
agactttaca	taaaatgttt	gtggtcaact	gtatgacttt	gtttccttaa	acccttggtta	38460



tgaaattgag	gatagcta	acccggtttc	tgtgtagctt	atcttctggt	ttcctatgaa	38520
tagagcaca	agtctgttat	tttacttcag	aacagatggt	tacagatgct	gcaacgggtgc	38580
taagaagtgt	actaaaatct	tatttatttg	tcatgacagg	gaaccaattg	cttcagggttg	38640
cacagaaatg	ccagagcacg	atctcagaga	gtgggtcaga	gggggtttct	cagcaggatt	38700
tacagtcaaa	tagtaacatg	taagttaatg	cacattatct	ttttattgtc	gatactctgg	38760
catttggttc	tagtgctttt	tatcattgct	gggtgccatt	ttgtgtatca	gggtcttggg	38820
agcaggacgg	caactggcaa	agttcatgga	actacagtcg	ctgaatgatc	ttggctatcc	38880
aaaaagatat	atcaggactc	tgcaggattt	cttttgctcc	tttcttact	gttactgttg	38940
tatatgaagt	cgtaagaagt	cctaattattg	aggcatgcga	gtgacagata	tctgaagttg	39000
tcaagagcat	gaaggatctg	atgaatttca	ctggcgagca	aaaaatcggg	cctattggta	39060
agtatacaat	ttccatccac	aataattcttc	ttgaatgaga	tccaaaacca	ggtttcccct	39120
ctgggtgcacc	ttttacttga	aatatgtact	ggtcgttgta	actctcctgg	tgaaaaatggt	39180
ctgactgaat	ctgaatgtta	tgatacctgc	ttatgtcatt	tatgtagagg	ggttgaaacg	39240
gcttttgtaa	cagacggtdga	cagtgaagct	acagaaacag	aaaatgcaag	agatggagca	39300
gtttgggaat	aatggagcta	taaatggggc	agttcaagct	caaattggtgt	taacttcagg	39360
aacgatgaat	ggctcaacgg	gcaataacac	caataatcac	catcaaattg	ttggctcgtg	39420
agctatgagt	gggccagctg	aagggtcaaat	ggtgatattct	tcaggaacgg	tgagcggcgc	39480
aactgccaac	aacaactcca	ataatcacaa	tcaaattggt	ggtcgtggag	ctatgaatgg	39540
ctctgctcaa	gccgcagcag	ctctgaccaa	ctaccaaagc	atgcttatga	ggcaaaatgc	39600
tatgaataac	ccaaactcaa	atacgggtaa	acaagagggg	ttctcgagtc	agaacccaac	39660
cccaaactca	aaccagagtc	catcttcttc	atcccagcag	aggcataact	tagttacagg	39720
tggattttccc	aactctcctc	aaatgcaaca	gcagcagcgc	accatgaatg	gccctacca	39780
catacttccg	cagaatcctc	ctcatcagtt	acaatcacca	cattcacatg	gtaacactcc	39840
ggagcagcag	atgcttctac	agctgttgca	ggagatgtct	gaaaatggag	ggagtgtgca	39900
acagcaacaa	gccttttcgg	gtcaaagtgg	tagcaacagt	aacgcagaga	gaacacaaac	39960
tgctctact	tccaacatct	caggaggagg	ccgagctcca	agtcgaaaca	acagttttta	40020
agcagcctcg	aacaacaacc	ttcatttttc	agaagatata	tcgatcacag	accatgattt	40080
ctcagaagat	ggcttcttca	acaacaatga	tatctatggt	ggcttgtaat	attcccacag	40140
aacgcaggca	ttgttacttt	gacttaacac	agtgaagag	aatttagggc	ttatttttct	40200
catttagggt	ggcttttgta	tagaaaccaa	agagatatga	ggccggccaa	tgaaggaatt	40260
tgtgatttgt	tgtaacttat	ctataggaac	ttttaagcat	cttcatttcc	ccttttagag	40320
atagtaagat	taaatcttag	ataacttctg	cagacacttt	caagtaatct	tatttagttt	40380
tatgctttta	ctttgataac	agtttgttta	tataaaggct	tcttgagtca	ctccttttac	40440
ggtttgaca	tagtaataat	actatggtct	cgatttagct	ttgaaaccaa	atgatttagc	40500
agatacttga	ttaaaagact	tgtaccacaa	aatttgcgaa	taaccacagt	aaaactcttt	40560
ggttttgtg	atttgacgtt	atggatatca	aaatataagg	aatctctttt	gaacacacaa	40620
tggttaagtag	atatgcaaat	atagaactca	gattaagatg	tttactggca	tatatcagag	40680
ggttcatttt	tttgttaaag	ataagaaaac	aaaacataca	agtaagatgc	ttaaggaaaa	40740
atgtaaacaa	atattactat	ttgaaatccg	ttaaaggatg	agcaacttaa	gatgcttttc	40800
tattaacaga	tcgttatcaa	agtaaaaagca	aaaacaaaga	atatgattac	ttcatagtgt	40860
gttagcagaa	atcataatct	aagatttccac	cccactatca	ctaaaagggc	agagaaacaa	40920
aaaacaaaaa	caaaaatcta	gtgtctatgg	gtcggtagac	cgtaggttac	agcaaatcac	40980
aaactccttt	ggtctctcat	atcactgagg	tttctataca	aagatgaaag	accaaaccac	41040
cctaaatgag	aacaataagc	ctacactctc	tttactgtg	ttagtcaaag	taccaatgca	41100
tctgttggtt	ggatattaca	agccaccata	gatatacctg	ttgttgaaga	agccatcttc	41160
tgagaaatca	tggtccgtaa	ccgatatact	ttctgaaaaa	ggaagggtgt	tgtttgaaga	41220
tgctttaaaa	ctattgatgc	ggcttggaa	ctggcctcct	cctgagatat	tggaagttaga	41280
ggcagttgtg	tttctctcgg	tgttattatt	gctaccactt	tgacccggaa	aggcctgttg	41340
ctgttccaca	ctcgtctcat	tttcagtcac	ctcctgcaac	agctgatgaa	gcatctgctg	41400
ctcctgagtg	ttaccatgtg	aatgtggcga	ttgcaactga	tgaggatgat	tctgcggaag	41460
catgttggga	gtgccattca	ggatgtgctg	ctgctgttgc	atttgaggag	agctgggaaa	41520
tccacttgta	gctaagttct	ccctctgctg	cgatgaagaa	gatggactct	ggtttgagtt	41580
cagcgttggg	ttctgactcg	agaacccctc	ttggttgccc	gtatttgagt	tttggttatt	41640
catagcattt	tgctttataa	gcatgctttg	gtagttggtc	agagctgctg	tggttgagg	41700
tgacccattc	atagctccac	gaccaacaat	ttgatggtga	ttattggagt	tggtgtggc	41760
agttgaaccg	ctcatcgttc	ctgaagataa	agtcatttga	gcttgagctg	gcccactcat	41820
tgctccacta	ttcccaact	gctccatctc	ttgcattttc	tgtctctgaa	gcttactgt	41880
cgccgtctgt	tccagaagct	gttttaaccc	ctctgcataa	gggacataag	taggcttcaa	41940
aagggttaatc	atatcaaata	caaagccttt	aaatcggaga	gttacagaaa	tcctacacca	42000
gaggggcaac	ctcgttttgg	gtctcattca	agaagaatgt	tgtagatggg	aattctagac	42060
ttaccgagag	ggccgacttt	gtgctcgcca	gtgaaattca	tcagatcctt	catgctcttg	42120
actactctag	atatctgtca	ctcgcaacga	gttactctat	catgacttcc	aaaggctaca	42180
gatacaaaa	taacaacaag	gaaaggagct	aatgagttac	tgtagagttc	tgatatatct	42240
ttttggatag	ccaagatcat	tgagcgactg	taattccatg	aactttgcca	ctgctctccc	42300
tgctcccaag	accctgacac	ataaatttagc	accggaatg	atatagagca	ctagagacaa	42360
aagccagaac	atatacaaat	aaaagaatag	ttggcatcca	ccaaattgga	tgtacaaaagg	42420
taaatttagt	gttagggatt	aacttacatg	ttactgtttg	actgtatatc	ctgctgagaa	42480
actcctgtg	aaccactctc	agaaatcgtg	ctctggcatt	tctgagcaac	ctgaagcaac	42540
tggttcacct	gcataaccaa	taataagttt	tcaatacact	tcccaaaacc	attgcagcat	42600

atgtctgttc	tgaagtagat	ttacaaacta	tttgtctctaa	ttcatacaga	ctgttttaggg	42660
aaatagtcac	aaacgggtttc	ataaatctctg	agatatccctc	atttcataag	ggtttaagga	42720
aacagattta	tacagttgac	cacaaacggt	ttttgtaaaa	tcttatgtctc	ctaatagtta	42780
acgcaagggc	tacgcaatta	gaataggacc	tgcgaggcaa	taagcctgcg	aagaagaagc	42840
tcttcatgac	gccgagcaca	aaactcccaa	gacagtatct	agaaagaaac	acagtcaaga	42900
ttaggttaagc	attagcacac	tggtgattgc	tagatatctt	cggtaaatag	gcagggcaca	42960
agaaaattgg	aagaaagtca	cacattttta	accaggggaat	ttttctagat	accttcagat	43020
ctggagagaa	tatgatacga	agatggccct	cacgaacaac	acgaaactgc	tcggtgtacag	43080
tttccctgaac	tgcttttcta	tattctagca	tcatacagtc	attgggaaat	ctgttttctc	43140
gtgggtgggc	aagatataag	agctcatcaa	tgatgccact	tgcaaatctt	atctcaataa	43200
gtctggctag	cacatcaaaa	gtagcctctg	cggaacgaaa	agatgacact	ttagctacta	43260
ttttgacgga	agacttttta	atacgattat	caaagtttta	aacaataaag	agagagcaat	43320
tagcatgtgt	aagctgcttc	attgtgtctca	agtaaaggca	cagaaatata	agtaaaaaa	43380
agaaatttgc	aactatctta	ccaaatccct	ttccagactt	agtgcgcgaa	agatcacact	43440
gccacatata	ctataaacag	aatgagaaga	tgatgaactt	attcattaaa	aaatcagtga	43500
agtgaatttc	ataaatagta	caggtggagt	aaagatgtgt	atagctaaag	atatgctgat	43560
gcagaacaca	gatatcataa	cagacccaaa	cacacagagc	aaagacgata	ctgaccggag	43620
ctgcctgtgg	aaacatgcca	agggcatggt	gccccacact	ttcgtactgt	gacaagcaca	43680
acctctgctt	tgacagaggt	gaaagtattc	tgccacaaat	ttcctccaat	aagtaatgca	43740
attttctctt	agaaaaggta	tcagtgtatg	gagaacttga	atagatgtga	taaaataact	43800
agaagtccat	aggttagtat	tagcttagac	caggccgttg	ctgcagatga	tacaagtaca	43860
tcatcaattt	ccgagcacag	acgccaaact	cataaggacg	tacattagga	gaaatctgtt	43920
gggttccttg	ttgctgtaac	tgctgtctca	gctgctgctg	tttctgaagt	tggagtctct	43980
gagaggggtga	catggattga	agcatctgct	gatgttgctt	cactctctgc	tgctgaagca	44040
aagcttgcat	ctgcggattt	cttcccgtgg	ggtcctggcg	ctggatcaac	tgctgtaaaa	44100
tctgctgctg	caacaagtct	tcttgcttca	cttctaactc	cagttttctt	tctacatggg	44160
aataactgtt	ttccctcatt	ggaactgaac	cttgtcctgc	ttgctgttct	agtagttgcc	44220
gctgctgctg	ctgaggtaag	tggtgcattg	aaggagatcc	atcaagaacc	attgatccag	44280
gcagggttaat	gccattcgaa	gagaaagaca	ttggcgaaat	cgggatatgc	agattattga	44340
tgccactgct	cctctgcata	tatacagctt	cggaaccaag	agcatcagtc	aatgagaaac	44400
tcgattcgat	agctccagga	gagcatacag	agatcaagac	gtccaatata	aggacggatt	44460
cagaggaatg	aaaagcctga	ctcttttaaag	cgtcctctca	gaatctctga	cccaataaac	44520
aaagccaaac	ggattctagc	tatgattaat	cattcaggat	ccaagtatta	cgaagattta	44580
gctgaaggaa	atgaaaacca	aatcagaaga	cgaaaaggcg	aatttttcat	aacactcgaa	44640
agccctatac	tatcagacga	gcatactctca	aagggtaaaa	cttaccaaca	aaagactaaa	44700
acttcaaact	caatgggcaa	ctcaaactca	aaccgagaaa	gtttcaacca	agtagactct	44760
cttcgactgc	acgaatccca	acgatcagaa	aattggagaa	accagtaga	caaagagatc	44820
attaaactct	acagcagcat	tttacttggt	aacaaatata	ctaaagcaga	cgaccaatgt	44880
aggcagaact	ataagtctat	ttgtagccaa	tatttatatt	tgagtcaaa	gttagggact	44940
agttcgaacg	ttgacaagag	gcgttttagag	tagtttttag	acccaattaa	gtcaatagaa	45000
ccgttcttgc	cttcataaat	ttcggcgatc	catttaagtt	acttaacgat	gcgttcgat	45060
ttgtcactct	caagggtgtt	cgatgcaaga	tgttttgagg	ttcgcactct	attgtcacgg	45120
gaaagcatta	catgattggg	gttcaaactg	agaggtgata	aaaaaaaaac	gaaatgtagt	45180
aacttgacat	aagtttttca	atccgacaat	aaaagtgatc	cgagttcgaa	tctatcaaaa	45240
accaaacgac	aaaaactaat	cacgacgaca	tagcgttggt	gactacaaac	agttacaaca	45300
tcctactttg	atagagattg	tggatccact	cttatcactc	gtcagctggt	ggcgaacgag	45360
gagaccggct	gcaacaacaa	gagaaatggt	ttacgattca	tgcatcaaat	aatatataaa	45420
caagtatcga	cctatttcag	aatctaacct	cttctgcatt	gggctctctg	caccatcata	45480
cccaccatca	ctgtctcttc	ttcctattga	cccagggctt	tcaacttggc	cattctcggg	45540
gctagacctc	gatctctctc	tcctttcaat	gggactttca	acttcaccaa	ccccatttct	45600
eggactctcc	ttcttgaacg	ggctgtgatt	agggtctcat	ctctctctct	tggtgttggg	45660
actgcgggct	tacttagtag	ggcttgcgac	tctctccctc	ctgcgagggc	tatcattggc	45720
tctgcgggtca	cgaccatact	cgggactgcc	acgtcttgat	ttcttgtaag	gacttgggct	45780
acgtcttcga	ccatagtcag	gactggctct	ttcctttctg	taggcagcaa	caggactagc	45840
tcctcggcca	taatcagggc	ttcctctttc	tcttttgtaa	ggactagggt	atcgccttct	45900
cctttcaggt	gacctatcac	ggcgtctttc	aggactgtgt	ccatttcctc	tagcatcatc	45960
atccttcaca	gcatactcca	ccgagatcac	cttatccatc	agcttactga	atgaaaacac	46020
agatgaaacg	tgagtctaag	aaaggaaagt	gattagatac	taaaatggac	agaacaaaac	46080
tgttatttga	agcatccaat	gctctgggtg	catcctcttg	tgctcgtac	tggataaatg	46140
caaaatttct	cctgatccta	acgttttacga	tctttccata	cggtcctaa	tggtttctct	46200
gatcccgggt	cctagtatta	tccgcatcaa	agttaatcac	aaagagagtc	ttggaagggt	46260
tcatgctgga	tgaggatctc	cttgaaccac	caccagatct	tttatcacct	ccacgttcac	46320
tctatataca	cagaaccatt	tatgttatca	gtattttcaa	cctcataaact	aagtctggaa	46380
agaaataaat	cctggggtaa	gtatcctacc	tttgtccatt	caacacgaag	tctgcgtccc	46440
ttacgcccc	attcaaagcg	gtcaagtgtc	cggtatggcat	cttcgcgcat	cctttctatct	46500
tccatgtata	caaaagcaaa	ccctggagaa	aaaagaaaaa	gccaaaagca	aagatctgag	46560
tacattaaca	gtgaggaagt	ggaccagatt	aagaaccttc	aacatacacg	aacactgtcc	46620
tcctctcttc	aacgcctaac	ttaaactcta	gaacatatta	aattttgaac	attcctagaa	46680
ccttaaaaaa	actccaaatg	accagtgaag	cagttacaga	ccttgcatta	tggaaatatt	46740

atgtcaaggga	acaactgaaa	atgtggaagt	cagacggggga	tatgaatgaa	aatagagagc	46800
cttctccatt	gcagaggcat	gtccaagtgt	gcaaagtgat	gaggaatgaa	atgcaattaa	46860
gatggcagtg	ctaattgcgga	tggaaaagtga	ctgatttttga	gggataagag	atggatttcc	46920
ctatgggtcca	ttcatggcca	ggtgtgagta	taggcgtccc	aagattatca	aacacatcct	46980
gcgtcaaaga	aaatgcggtt	ttacactaat	tttttttcta	aaaatcttat	tcctctgaag	47040
tactttccaa	agttcaagca	ggctgcatac	gggtggccagg	tgaatgtggt	caatgtttag	47100
tactccttcc	aaagggagat	agtccaccag	agccttctcg	tggatggaat	gaagacgaga	47160
gtggattttca	tgaaatgcat	ttgaattttcg	cttttttcatt	gtacttagtg	gataacaata	47220
ctgcttatta	taattcattc	aggttaaacca	caaagacaga	gtagtaagag	gcagaagaaa	47280
gaaagaaaga	aaaaaaaaggc	tcaccagctt	tcatatcaac	cctctcaacc	ttgccgtatt	47340
tcctgaatag	tcgttccagg	tcaccttcgc	gcgcatacata	ctcaaagttc	ccacagaaga	47400
ctggcttcat	gcttctctgta	tagacaacca	caatagtaaa	aaagattcat	gagacttcct	47460
taaatgataa	tttaaacacg	aatatcacaa	ctaatttgct	accaagatga	aaactttttaa	47520
cactaaaaac	tagagccctc	acactaaatc	gaattgtttt	gcagtaaatt	aggacttgaa	47580
actcatctat	tcgagctcca	aatcagttaa	atctaggaac	tgaactagac	agtattagaa	47640
tcaaaagttac	aatgcaacag	atctaattcta	actacagtta	gatctgaata	tcattcacaa	47700
gatagagaaa	acgagaacaa	tccacaaag	catgaattctt	tcataccaga	aaaaacaaaga	47760
aggctctgat	gagattcaac	ttataaaaaa	cgagatggac	caattctctt	gttctacttt	47820
tcaccaacca	aaaaaaaaaag	aaggaagaag	gagatgagaa	ccacgacgat	atagagagtg	47880
aataaaactgc	atcaattttac	ctgtagaatg	attttggcag	gcgtagtcgc	gtggaagccc	47940
tagaagaaga	agaagctcgc	gtcgagagat	agggtgaaact	gaaaacagag	ttaggtacga	48000
tttagataaa	gaaggcaaga	gagatcattt	ggattttttat	tttcttttct	tttcttttta	48060
gtttcaaaga	tatttttttct	agaacacatt	ttgactttct	tattttgtct	gaaggacgag	48120
aagtcgagaa	cgtctacttt	ttaggagtat	tgggcctata	tgtaaacaac	attataagaa	48180
gcccacaacg	taaaacaaat	tgaagctgct	ttctaaaaaa	acaaaacaat	aacagattat	48240
gaagacaacac	aatatttaga	ttttttaatt	ttgattagaa	tatactgatt	aatagaacta	48300
gaacatgtat	cacataacat	ctacacaatg	aataatgcac	acaagttttt	aaaaagctct	48360
gcaacttaac	actctcaaga	tcccacatgt	caagtttttg	attcgatgaa	acatatgagt	48420
ttgttagtaa	gtttaataat	tggtgttata	aagaaatgtg	tatatattata	tattacaatt	48480
aattaaataa	attgttttcc	tcttcattgg	attgcttcac	ttatgttaag	agtttagtag	48540
ttgctttcaa	ggccgaatga	tatgtggcca	cgaacatatc	atcacacgtg	gaatgagaac	48600
gagttttcgac	ttttcaataa	tgccataaag	cctcaattat	cttcttatct	cgcttgaata	48660
tgcaacaaaa	agctattaag	atattcataa	aatagaggcg	tctcaaactc	accaacaaaa	48720
agctacaaaa	gatccagtc	aatccactga	agaatcccaa	aacagagtag	aaacccaaac	48780
aaccggattc	agcaataaat	tcaaaaacga	acgtccgtac	gattttccaa	aaacagaaaag	48840
atgggttcca	caagataatg	cgtggggacg	tcaaaaactc	ctaaaccctg	ggttcggccg	48900
cggaaacact	gtccctacct	tcccaccag	ccttactctg	cccatacgt	cactctcaag	48960
ctttactttc	tattttccac	taaagccaat	tttgtgtgtt	tcttcacctt	accactcttt	49020
ttttccctct	ttgttgtgtc	ttcttttctc	ctaaatgtca	ataacgtgag	agcgagaggt	49080
aacgagagag	atatttttgt	cagcgaatat	atttcatgca	tatcttattg	tgaagatttt	49140
ttataccttt	tttttgtcaa	tacaatatag	ctattattga	gattgagata	ttttgtggga	49200
attattggga	ttcaagataa	cttgctattt	tgatttggtc	taatccttcg	cttagtcctg	49260
tcttggtcca	ttacatgtt	tttggttata	gtttgtttta	actgaataat	ttgttctatc	49320
atatgcattt	atgactcatt	tttaaccgtc	catcgaaatt	gataattatc	cattacccaa	49380
tctgattaat	ttttttaaaa	aatcaagctt	ttctatattg	tagtattatt	tttggttaaa	49440
tattaggaca	tctacttcca	atacaaatac	tacatgagta	tttaaaatat	catttcacag	49500
agatacttat	gtctattatg	ttatagacgg	gtgacaatta	atgacaattt	gtttattcat	49560
aggaatttaa	aaacgattgt	aacaacagca	gccagccaac	cacacaggca	cactctcgat	49620
agaattttaa	gaactcataa	aggttaaacga	gtgaagagtc	aaaagtctct	ttacaagggg	49680
caaaggacac	acgtcagaca	gcgagtggaa	catcgtggga	ttgcttcgct	atgtactata	49740
cacgtgtcat	tcacagagac	aaaaactccg	tgtgtctccc	acatatccgt	tatctctcct	49800
ccggccaata	taaacaccaa	ttctcactct	cactttttat	actaactaca	cacttgaaaa	49860
agaactctacc	tgaaaagaaa	aaaaagagag	agagatataa	atagctttac	caagacagat	49920
atactatctt	ttattaatcc	aaaaagactg	agaactctag	taactacgta	ctacttaaac	49980
cttatccagt	ttcttgaaac	agagtactct	gatcaatgaa	ctcattttca	gctttttctg	50040
aaatgttttg	ctccgattac	gagcctcaag	gcggagatta	ttgtccgacg	ttggccacga	50100
gttgtccgaa	gaaaccggcg	ggccgtaaga	agtttctgtga	gactcgtcac	ccaatttaca	50160
gaggagtctg	tcaaagaaac	tccggttaagt	gggtttctga	agtgaagag	ccaaacaaga	50220
aaaccaggat	ttggctcggg	actttccaaa	ccgctgagat	ggcagctcgt	gctcacgacg	50280
tcgctgcatt	agccctccgt	ggccgatcag	catgtctcaa	cttcgctgac	tcggcttggc	50340
ggctacgaat	cccggagtca	acatgcgcca	aggatatcca	aaaagcggct	gctgaagcgg	50400
cgttggtctt	tcaagatgag	acgtgtgata	cgacgaccac	gaatcatggc	ctggacatgg	50460
aggagacgat	ggtggaagct	atttatacac	cggaaacagag	cgaaggtgcg	ttttatatgg	50520
atgaggagac	aatgtttggg	atgccgactt	tggttgataa	tatggctgaa	ggcatgcttt	50580
taccgccgcc	gtctgttcaa	tggaatcata	attatgacgg	cgaaggagat	ggtgacgtgt	50640
cgctttggag	ttactaatat	tcgatagtgc	tttccatttt	tgtactatag	tttgaaaata	50700
ttctagttcc	ttttttttaga	atggttcctt	catttttattt	tatttttattg	ttgtagaaac	50760
gagtggaaaa	taattcaata	caaaacaaat	cgttttctac	ttctttgctt	cacataagtt	50820
aaaagtcaaa	tatttaacaa	aaaagatatt	aaaagtcata	ttgtagtgc	tttcaaggca	50880

aaatatgtgg	acagatcatt	acacgtggat	gatgtttgta	aatatgccac	aaaacctgca	50940
ttacattatt	ttattctatc	tcagtgaagt	tacagatctt	acaatttagc	aacagaaagc	51000
cacaaaatat	tacataaatt	ggctcgtctc	gaatctagca	accaaaaaaa	ttcagcccag	51060
ttcactataa	agaatataaa	aaaaagtttc	ctaaaatagt	gtataaaaacc	gaaacaaact	51120
aattcaacaa	acccgaaata	aacaaatccg	tacgacaacc	aaaaatatct	ttcagatggg	51180
ttccacaaga	taacccagtg	ccaatcagaa	ttctgaaagc	gtggctcgac	cgcggaacc	51240
attgtccata	ccttctcttc	tttgtccccc	cttacgtggc	tcgctgtgga	gtctcgtacc	51300
acgtgtcgcg	tcacttcact	ctttactttc	tattttccac	taaaatcata	atttgtcttt	51360
ttcttgacca	tacccactct	tttttcttct	cgttgtcgtc	ttgcttctcc	taaatatctc	51420
aaataacgtg	agagacttga	gtgtgagagg	taggtaacga	ggcagacttt	ttttggaagc	51480
gaatataact	tatgctgata	ttttattttg	ctttctgatt	ggagttgaga	tattatatag	51540
gtattattga	gatattatat	acgtattatt	gagatttgag	atattttgta	gattttatag	51600
ttctatcgga	ctaattcttg	gcttaatcca	ctaacatgtt	tttgtttagt	taattaaact	51660
gattattttt	tgcgctatag	ttttgttaaa	caccttttag	acgtaacaaa	gcaattacgc	51720
ttgatcatcc	atcgtagact	ctttttcttt	ttttacatct	catagaagtt	ttgtttaaac	51780
acagcaggaa	gtaaattatt	ttcttattac	gtacgtatga	ttgtttttag	actattttag	51840
tactttgaga	agtaaaattg	gggatacgag	ataaaagaca	attgattaac	atgcttttta	51900
ttttgacttc	cgaaactaat	catggttgct	tatgtttata	aattgtgttc	ttttgttga	51960
aaaactcaga	taatgattaa	atcagtagcg	aatggatgga	gaacacatga	tttttagattg	52020
cataccgtaa	aacaaaaaaa	atcatgatgg	atgtaagaca	ttcaaatggg	tcaaaataat	52080
acgtatgtga	tcaaaagaaa	gtatgtgatc	aaaaggggta	gcacgagtac	cttgggagga	52140
aattcttcta	attatgaatt	atgcaagaat	tttcgtcaag	ggaagggtggg	gaagaggtag	52200
ctaaagaata	gagaatcata	tgactaagga	cgtggtggtt	gaaggaaatg	agagaatata	52260
tgaagaagag	aaacttcttt	gagtgagaag	gaagtgcgct	ggctggagag	aaaagagaga	52320
aaagagtttc	gagtgagaga	gagggcggtt	agatgtgtat	caacttaatg	taatatgttc	52380
ttttattaca	ttttcttttt	gtcatatact	caaacctttt	actattttgt	ctcataaatt	52440
taacacaccc	caccatttgt	taatgcatga	tggtagaaaa	tattaaatat	aattaactac	52500
ttttatgtga	tcaaaattag	gtttcagact	cgtttcgcga	tccgatctac	aattacaact	52560
gcatgcttct	aattgatcta	aattctaaat	tttttatata	tattaaaaaa	acaacttttt	52620
gttaaatctt	caatcatcat	ttttgtgatt	aacaattttt	tataactcta	aaccaataat	52680
atttgattat	ttattttata	tgtataatga	tgattgagaa	ttttaattag	cagctatttt	52740
aggggttttc	taaagttaca	atatgttgtt	accttcttag	ttaaattttc	caaaatacca	52800
tatttcataa	cttttcaaac	tgtttattaa	ttcaaccgta	aaaagcacta	aatgtttaca	52860
tttgatcatt	cacccaaatt	aaattcaaaa	gtttttccgc	caaaactact	tggtgactta	52920
cgtgcttata	tacggacgac	tattattatg	ttctatactt	ttttatactt	tggtgcacaa	52980
atatctactc	toccaattca	tattctagaa	ggagtgccta	taagaatggg	agaaattaca	53040
caagaagagc	atcttttaaat	atcctctcac	aatctttatg	tctaatacac	gggtgaacaa	53100
ttaacgacaa	tttctttatt	caggaatata	ataatgaata	acggttaccc	tacacctagt	53160
acactaaata	cttaacagcc	acacattcat	acgcaaagag	tttataaaaac	tcataaagggt	53220
ataataataa	cgagtgaata	agtcaaaaaa	agtcttctct	ggacacatgg	catagcttaa	53280
tgagtgaata	cttaaaactac	tcattttaca	attgcttcgc	tgtgtatagt	ttcagtgcca	53340
ttaccagaga	cacaaactcc	gtcttcgcct	tttcttttgc	ctctaaaata	tcttccgcca	53400
ttataaaaca	gcatgctctc	actccaactt	ttatttatct	acaaacatta	aatccacctg	53460
aactagaaca	gaaagagaga	gaaactatta	tttcagcaaa	ccataccaac	aaaaaagaca	53520
gagatctttt	agttacctta	tccagtttct	tgaacacagag	tactcttctg	atcaatgaac	53580
tcattttctg	ctttttctga	aatgtttggc	tccgattacg	agtcttcggt	ttcctcaggc	53640
ggtgattata	ttccgacgct	tgcgagcagc	tgccccaaga	aaccggcggg	tcgtaagaag	53700
tttcgtgaga	ctcgtcaccc	aatatacaga	ggagtctgtc	ggagaaactc	cggttaagtgg	53760
gtttgtgagg	ttagagaacc	aaacaagaaa	acaaggattt	ggctcggaac	atttcaaacc	53820
gctgagatgg	cagctcgagc	tcacgacggt	gccgctttag	cccttcgtgg	ccgatcagcc	53880
tgtctcaatt	tcgctgactc	ggcttgga	ctccgaatcc	cggaaatcaac	ttgcgctaag	53940
gacatccaaa	aggcggcggc	tgaagctgcg	ttggcgtttc	aggatgagat	gtgtgatgcg	54000
acgacggatc	atggcttcga	catggaggag	acgttggtgg	aggctattta	cacggcgga	54060
cagagcgaaa	atgcgtttta	tatgcacgat	gaggcgatgt	ttgagatgcc	gagtttgttg	54120
gctaataatg	cagaagggat	gcttttgccg	cttccgtccg	tacagtggaa	tcataatcat	54180
gaagtctgacg	gcgatgatga	cgacgtatcg	ttatggagtt	attaaaaact	actattattat	54240
ttccattttt	agtacgatac	tttttatttt	attattattt	ttagatcctt	ttttagaatg	54300
gaatcttcat	tatgtttgta	aaactgagaa	acgagtgtaa	attaaattga	ttcagtttca	54360
gtataaagtgt	gggctattct	taaatgcaag	tattttttaga	gcagtaacaa	aaaaatgttg	54420
tttaaattag	agtataaaac	cgaaacaacc	gattcagcaa	aacctccaat	aaatagacct	54480
acaccataaa	cagaaatatg	gggtccacaa	gagagcactg	tccgtagctt	cccttccatt	54540
ggccctctac	gtggctcctc	ttgtaaccaa	tgtcatgtca	ttttcaagtt	ttactttctt	54600
tttttatact	aatatcttgt	ttgtcgtttt	ctgtacctta	aggtoctaaa	ccactttctt	54660
tcgcgcacca	ttccttgteg	tattatttct	ccgaatatgt	caataccgtg	agacgacaat	54720
tgatagcgag	aggtagcgag	agagagaaac	gttcgttgtg	aagatatttt	attgctgttg	54780
ttgagatttg	agatatttta	tagctattat	tggaaattga	aagtgatgta	taacttgcta	54840
ctatatcggt	ctaactcctg	gcttaaacca	gtttttattt	agtaatttta	tgctcctgta	54900
ttattattcg	gtggaggtatt	tttttctcaa	aaaatatatg	agtcgagttt	aagaaatata	54960
taagcgaaaa	aacaaaaaaa	atatatataa	gcgggggttaa	tagatcaacc	acaatcaatt	55020

taatttggac	tttagaatta	ataaaattgt	ttacttcgta	attattatta	tttttgttgt	55080
tctggcaaat	ctgataatcc	agattattat	tagacaagta	gcgaagggac	gggtgaacatt	55140
tatgatttta	atattgtatgt	tgtaaaggaaa	acaaaaacaaa	taagttctgt	aaaaaaaggtt	55200
taccttttcta	ctttgcccga	aaactcaact	cacggtggcg	ttccggcgag	tttcagacca	55260
aaaagaaggt	tggagaagaat	gaagatgaag	aggagaggac	aaaagataga	gatgggtggtt	55320
gaacaaaaga	agagtaaaga	ggacgaagac	gctctaagtc	taagccaagg	gggagaagaa	55380
gagaagaggt	atgaggagga	accatacttt	tgttagagag	atgctggaaa	ttgtgatcaa	55440
ctacatgcaa	aatgtctttt	cgcctaacca	cttaccatat	ttgatatttt	ccttttgcca	55500
aattacacaa	accctatctt	gtctctcaca	tatatatcca	attaatacac	ccttgccact	55560
tgttaattct	cgaccatgta	tgtatactta	tgtaaagaat	atccaaaagc	tttctttttg	55620
ttccttcgat	tttaagcaac	ttgtgtttct	atcttctcaat	atcttaaga	aatcctgagt	55680
aaaaaagttt	atagcctccg	tgaatcttag	gaaattactc	tagcatattc	aaattttttg	55740
aaacaatata	taaatttttc	tgaataatta	aattttacata	tctatgctac	gaaacttgat	55800
taattaaatc	aaatatatat	atatatatat	aataataata	ataataatat	aacatttttt	55860
ttaggacaca	aatatctaata	ctcactatac	ctcagaagta	tttgcaatgc	acgatattgtg	55920
aatggagaaa	agacagaaaag	agcatttgaa	aatatctcgt	ttcacggatc	attatgtcta	55980
attatttttac	catagaaaag	cgacaattat	aaacaatttg	ttattcgttg	aaaaataata	56040
tttaataatg	gttgctgtac	cctataaact	acagccacac	attcatacaa	taagaagtta	56100
aaaaaattca	taccctaaag	gcatcaacca	gtgaagggtc	agaaaacttc	caagatgggt	56160
caaaggacac	atgtcagatt	ctcagtgatt	gacagccttg	ataattacaa	aaccgtggga	56220
tcgcttaatt	gtttcttata	cacgtggcat	tcacagagac	agaaaactccg	cgttcgaccc	56280
cacaaatatc	caaatatctt	ccggccaata	taaacagcaa	gctctcactc	caacattttc	56340
ataacttcaa	acacttacct	gaattagaaa	agaaagatag	atagagaaat	aaatatttta	56400
tcataccata	caaaaaaaga	cagagatctt	ctacttactc	tactctcata	aaccttatcc	56460
agtttcttga	aacagagtac	tcttctgata	aatgaactca	ttttctgcct	tttctgaaat	56520
gtttggctcc	gattacaggt	ctccggtttc	ctcaggcggt	gattacagtc	cgaagtgtgc	56580
cacgagctgc	cccaagaaaac	cagcgggaag	gaagaagttt	cgtgagactc	gtcacccaat	56640
ttacagagga	gttcgtcaaa	gaaactccgg	taagtgggtg	tgtgagttga	gagagccaaa	56700
caagaaaacg	aggatttggc	tcgggacttt	ccaaaccgct	gagatggcag	ctcgtgctca	56760
cgacgtcgcc	gccatagctc	tccgtggcag	atctgcctgt	ctcaatttcg	ctgactcggc	56820
ttggcggcta	cgaatcccgg	aatcaacctg	tgccaaggaa	atccaaaagg	cggcggtctga	56880
agccgcgttg	aattttcaag	atgagatgtg	tcatatgacg	acggatgctc	atggctttga	56940
catggaggag	accttgggtg	aggctattta	tacgccggaa	cagagccaag	atgcgtttta	57000
tatggatgaa	gaggcgatgt	tggggatgtc	tagtttgttg	gataacatgg	ccgaagggat	57060
gctttttaccg	tcgccgtcgg	ttcaatggaa	ctataatttt	gatgtcgagg	gagatgatga	57120
cgtgtcctta	tggagctatt	aaaattcgat	ttttatttcc	attttttgta	ttatagcttt	57180
ttataacttt	gatccttttt	tagaatggat	cttcttcttt	ttttggttgt	gagaaacgaa	57240
tgtaaatggt	aaaagtgtgt	gtcaaatgca	aatgtttttg	agtgcagaat	atataatctt	57300
tgggtctcccc	ataagcaaca	aatcaaaaata	taatactatt	acgtaattca	gtgaattgaa	57360
aacaaaaagt	ttgggctcac	ctgtaaaatt	aaagttagat	gattctggca	tttccgtgtc	57420
taagaaaaag	tctaggcact	tatgtaaata	gcaaaaagttc	caggttgggt	gatagcaaca	57480
gtttctgcct	ttctgctaata	tcagcaaata	tcaagactca	aggacgtttg	gtaaaatatcc	57540
aaagttccgt	gagtttttgt	aaatatgata	aattatagga	actatataga	tatctaactg	57600
ttcaaaaaat	gtttgacccc	aaaaaaaaaa	aaaagggttt	caaaaaatgt	ctgcaataaa	57660
aaaaaaaaag	atgcggagac	acttttaatt	tagtcaaaagc	tttaggcagt	aatgtaactg	57720
agaaacgata	ctatgtaaat	agcaaaagat	acaaaaaaaa	aataaaaaaa	aaaaaatagc	57780
aaaagataca	agatagtgtat	agtgtataag	tagtatcaag	agatttatat	acagtattta	57840
tggaaataac	aaatgtttcg	agattgtaaa	gagaaaaatga	tccatatagt	aaaaactctac	57900
gggatatttt	attggtgagt	agcagtaaaa	tccgaacact	tgtatatagc	aagataccta	57960
cccggcaaa	cacttcacat	aagtttcggg	tacttcgttg	aatatcaaaa	gatctaaggc	58020
agtaagggtc	tttggtaaat	agaaaagttg	gtaacgcttt	ggtaaaataaa	attttgggta	58080
acttgggtta	tattcttctt	tgaatagcaa	aagaagaagt	gagcaactgg	ggtaagttagt	58140
acagttttga	tgatagcaaa	agttccaagt	gctatttgga	tttctcaatt	aggagacatg	58200
atgatcaatt	ttgatgacag	ctaaaagttg	catcgagtcc	ataacccaag	aagaactttc	58260
acgtaaacct	tttcttttgg	aaaagaaaaa	agtgtaaacta	tcattgatttt	tgtttttctt	58320
tgttttgatg	acaagtattt	ctcctcgtga	aatcagtttt	ttttttcttt	taatgaatat	58380
aaagaataaa	tcagattatt	gagattcaca	aaaatccatc	atcgcaagtt	cttacgtaatt	58440
cgaaagacgt	tactacggtt	actaaactac	tgtatatgta	tgtgatgtcg	aaaaagaaga	58500
agagaagacg	ttacgtcact	acttgatgtg	tcattcgatca	gtccacgttg	ctttttgtta	58560
ggtccgagag	aggaaagtga	aatttcagacg	ccgctttttt	ttttttggat	gaagtcccaa	58620
aattagccat	tttatacagt	ggttaagctc	gttgaccacaa	tatcaatggc	gtctgcaacg	58680
actcttctct	tccaccacgg	ttccactcga	gtcctcgtcg	ctcgtagacg	gtgccaagct	58740
tcagtcctta	gacctacgg	cggtttaaa	ccctttcttt	ccttctgcag	cttacctaact	58800
tccactgcgc	cgttccggga	ttcgttgaga	gcaaaatccg	atggattggc	tcgggcctat	58860
gttaccggag	cgccgcctat	cgtggaagaa	ccagacccaa	agattgaaga	atccaaatct	58920
gaggctgaat	cgaaggattt	aattagttgg	gggcttctgt	ggagcttgat	gagcaagcac	58980
aagctcaggc	tcagtgtttg	cttattgact	ctccttggat	gcagtacttg	cactctctct	59040
atgcctgttt	tttctggtaa	tcggttcttc	aatccactct	cccaccatta	gcaaattgta	59100
actgtactct	ttttttctct	ttgggtttga	tgtagtttaa	gtttgggtat	gatgatttag	59160

cttgatcatct	gtgttttctct	ttatcttgggt	gaagctgttt	tataatggta	agtgttattg	59220
ttttgagtaa	aggtagattc	tttgaagtac	tgattggggg	gagaccggag	cctttgtggc	59280
ggctgctgag	caaaattgct	gttttgtact	cgttggaacc	catctttact	attgcttttg	59340
tgaccaacat	gactgctatc	tgggaaaacg	ttatggcaat	attaagagct	cagattttca	59400
gaagggtttt	gatccagaag	gtatgttttg	tttagtatga	tcaaagttcg	cttaagctat	59460
attgttggct	gtattgaaat	atcattgatg	ggtttctttt	ttttgtcttt	tatatattca	59520
ggcagagttc	ttcgacaaat	acaaggctcg	ttccttttat	tcttggtttg	ctcagggttg	59580
agacattttg	gcacaaacct	tccttatgtt	agattgagtt	catttggttt	agggtggaga	59640
gctaacgggg	ctactcacgt	ctgatcttgg	tgctctgaat	agcattgtga	atgataacat	59700
ctcacgagat	cgtggattta	gggcattttac	agaggcaagc	catttcttta	ctatgcaaat	59760
gtgagatttt	tgatgtttga	catacatttt	tcataatgaa	tacagattta	atcttagcct	59820
gggtgttggtg	tctgctgtta	tttttggagt	tctataaatg	acaaagacta	tcctgttgca	59880
tctcaagaat	gcccgattct	catggcttat	gcgttatccc	ttttgtaggg	ttttggaaca	59940
atatgtatcc	tattttactct	atctctctcaa	cttgcacctg	tacttggtct	attgatgcta	60000
gctgtgttcag	tcttagttgg	taaattctct	atgtcttttt	cattctctta	aactttttat	60060
ttttggtaat	tactttgggtc	atctttgctt	actttgctta	cctctacatc	tactccctcg	60120
gtcaaactctc	aaaagctgtg	tacaagagat	cgactgttcc	tgtttataaa	tcgcatggat	60180
tagctcaagc	aacaatgtct	gattgtgtat	cagaaacggt	ctctgcaatc	cgaactgtaa	60240
gttcttgact	tcatcgattt	tgtatctttt	agggcagatt	aaattatctg	aagaaacttt	60300
gattttacct	tgaagactca	agtaatttgt	atctctttat	aggtaagatc	attcagcggc	60360
gaaaaacgtc	agatgtctat	cttcggtagt	caggtcatat	ttcagacttc	ttactagcta	60420
aaactgattt	cttctaaca	attgttcttt	tttctaactg	atccataatc	tattaatcta	60480
aacttttgtt	tgatgtacag	attcttgctt	acaagcttag	cggtctaaag	cttggtactt	60540
tcaagtctat	aaatgaatct	ataacaagag	ttgctgttta	tatttctctg	ttggtctttt	60600
actgctttgg	gggaagcaag	gtgaagacgg	taagataatc	ctgcctgtaa	gatttgttga	60660
ttgccattat	gatcattcaa	gttgaaatta	tgcttcttgc	cccttaaaac	ataaagagaa	60720
tcgtgttttt	atgaatttct	attgcagaag	atagtgttac	tcgttggtta	tactttctgg	60780
aacaaatgac	tggatgtttc	tagctagaat	caagttacta	ccttctgaat	ttttaaataa	60840
aaaaaaacta	agaatcaaat	ttctctgtat	ctctcttttg	tgtagtttct	tatgttgtta	60900
cattttagct	cttttgcact	ttatttttct	tggttcttat	tcttaaaatt	tctccaacce	60960
aggggtgagct	cgctgttgga	acagttgttt	cgttcattgg	atacacattc	actctaacat	61020
ttgctgtaag	tacctctgtc	tacacatcat	ttactgtcac	acatatgcta	tacatgtaat	61080
ttagtttacc	ataaccagtg	attctgttat	ccaggtccaa	gggcttgtaa	acacgtttgg	61140
agatctacgt	gggacttttg	ctgctattga	caggatcaat	tccattttta	acgcgggtgga	61200
catagatgag	gctcttgctt	acgggttaga	aagagataata	catacaaaga	aagtcgaaga	61260
tgaaaacctt	aaattgttct	tgtctgctgg	cccaaagtgt	aatatccgtc	acctcgataa	61320
gtactacatg	tcaaatctga	aatcaactaa	caatctacgt	accctaacat	gggctggaga	61380
tgtctgtctt	gatggtaaaa	tcagaccaag	aaaaactctc	ttcatcatat	cttactacag	61440
ctttttacct	ttttcatatc	tgtttttctt	ttccatgttc	tattttgtct	agtgtagatg	61500
tgcattttgc	ttatctctta	cgaccgacg	tgaaagtctt	tgatgggctg	agtttgacgt	61560
tgaattctgg	tactgttaact	gctcttgttg	gctctagtgg	tgcgggaaaa	agttactattg	61620
tacagttatt	ggcacgcttc	tatgaggtta	atctaccctc	ctcttccaat	ttgaagttta	61680
atatctgttg	agactatggt	tactgccact	tttacattat	gctgatatgt	tgaattttca	61740
attcttgcag	ccaacacaag	gacgtattac	tgtgggtgga	gaagatgtga	ggatgtttga	61800
caagatcgaa	tgggctaagg	ttgtctcaat	tgtgaatcag	gtgtgtatac	gttaacatcta	61860
tgtgtcaggc	atgggtggat	catttcttct	cttcttcttc	aaagggtatc	tttctgtgtg	61920
attcaggaac	cggttctctt	ttctctctcc	gtggccgaga	atattgcata	tgggtctcccc	61980
aatgagcatg	tgtccaaggga	cgacatcatt	aaggcagcca	aagctgccaa	cgctcatgat	62040
tttataatct	cacttctctca	ggttcagatt	cggtgtgcct	atactttcct	gtttcttctt	62100
ggcaattgca	catcaattct	tgtgagcaat	accggtgttt	gtttataggg	atacgataca	62160
ctgggttggtg	aaagaggagg	cttgcttagc	ggaggacaac	gacaggatga	gaaacattat	62220
gagctacatg	tttttgattt	ctgatagact	tttgcaactg	ctttgatgtg	cttggtttatc	62280
aatgtgttag	agagttgcca	tagcccgatc	tctgctgaag	aatgccccca	tcttgattct	62340
cgatgaggtg	agagactctt	attttaataa	tctgcgcttt	gatgaactgt	ctgctttgtc	62400
agaaccttta	cctaagtaat	agcatatcaa	acaagaacac	aaacagttag	cttgagacat	62460
ctctgcttag	tctctctctt	gcttactttg	ttgcaggcca	caagtgcgct	ggatgcagtg	62520
agcgagcggt	tagtccagag	tgcgttgaac	cgtctgatga	aagacaggac	aacattagtc	62580
atcgctcaca	gactgagcac	agttcagagc	gcgaatcaga	tcgctgtgtg	ctctgatggg	62640
aagatcatag	agcttggaac	acattccgaa	ttggtagcgc	aaaagggatc	atatgcttca	62700
cttggttgcca	ctcagagact	agcctttgag	taattttacct	taactcggtg	taatttgttaa	62760
caaattacta	caaatttaca	aatggtagaa	tctggtttta	tatacaactt	tgattaacaa	62820
tagtttatag	acagatcaaa	ttttcaaaaa	tttatagtaa	aacaagaaga	aattaaacga	62880
ccattgatgt	gaagctgacg	tggagggatc	ttcacttatg	ttttcttcaa	gaatgatccg	62940
aagattaaaa	aaaaccgaag	ccgcttgaca	tcttcttcca	attttgattt	atcaaagaaa	63000
actcctttgt	gagagattat	ttatgtactc	ttgatttcaga	gaggtaaaatt	ctgttagggg	63060
ttcgttcgat	tttcgcgctt	gtttttgttt	acttatgatc	ggatttggtg	ttttgaacag	63120
taatgatcca	ttcgacgttt	acaggataat	ccaattccga	gttttctgag	tcgtaattta	63180
gagagaatcc	aattcgatgg	atttagatat	gaacggagga	aacaagagag	tctttcaaag	63240
actgggcggt	ggctcaatc	ggccgacgac	ggactcaaat	cagaaggttt	gtttccactg	63300

gcgagctggc	cgggtgcaatc	gttaccatg	cccttacctg	catagagaat	tgccgggtcc	63360
gggttcgggt	ccagtagcag	cttcttcaaa	taaaaggggc	gctgatgaat	ctgggtttgc	63420
gggtccgagt	caccggagag	ggcctgggtt	cagcgggact	gctaataact	ggggaagatt	63480
tggtgggaac	agaacgggtga	ccaagacgga	gaaactttgc	aaattctggg	ttgatggaaa	63540
ttgcccttat	ggtgataaat	gtagatactt	gcattgctgg	agcaaaggag	atagtttctc	63600
cttggtgacg	cagcttgacg	ggcatcagaa	ggtatcttgt	tgttgagtgt	ccttataagt	63660
gatgctggat	tcttggtgctt	gttggcgatg	ttgatagttt	ttttttttt	tggttctgat	63720
ttctcgagta	ggttgttact	gggattgctc	tgccctcagg	atcagataag	ccttacacgg	63780
cgagtaaaga	tgaactgtg	cgaatatggg	attgtgcttc	tggacagggt	ttgatttgcc	63840
tctgataatt	atttctttta	ttgtgtgttg	attgagtttc	gctccatatt	tagtttagct	63900
attgagttta	aaacatcatt	ttgatattgg	tggttggttg	gactacttta	taggcgtact	63960
tctcattcta	gtatttggtt	ttttttctac	gatgtagtgt	acagggtgtac	tcaattcttg	64020
tgggcaagtt	ggctgcatca	ttagtgaagg	tccctggcta	ttggttgga	tgccaaatct	64080
tgtaaggtta	agttcagagt	atgattcatt	tgcattggtc	cctgactatt	aaaactcttc	64140
atctatactg	agaatcactt	ttgtgtgctt	atgtgttgag	gtttatttgt	gttacggata	64200
tacatttttg	aattatatgc	aggcgtggaa	tatccaaaac	aatgcagacc	tgagcctcaa	64260
tggaacctgt	ggccaagtat	attcattggg	tgtgggtact	gatctattgt	tcgctggcac	64320
acaagtaaat	acttttactg	actgtaaact	ctttttctaa	ggccttggag	agttggagta	64380
gaattttgct	tcagcgtcat	gtatatactt	aaaactcttt	tttgtcttga	atatcatttc	64440
aagtttgctg	catctcttgg	aaaaaccacc	tctgctatag	aaatctacag	ttctattgga	64500
ttttgataaa	aattcttctg	caggatggct	ctattttggt	ttggagatac	aatagcacca	64560
ctagctgttt	tgatccagct	gcatacactat	tggtgcacac	gcttgacagt	gtctctttat	64620
atgttggggc	aaacagactc	tattctggtg	ccatggacaa	ttctataaaa	gtaagtagtg	64680
tggaactact	taaaaagtag	tcaccagtg	ctattatacc	taaattaaaa	tcccctttct	64740
gttttttttt	tgtttaagct	cataggccta	ccttatctgt	ttttaatagg	tttggagcct	64800
ggataatctg	cagtgtattc	aaacgcttac	agagcataca	tcagttgtta	tgtctctcat	64860
ttgctgggat	cagtttcttc	tgtcatgttc	attggacaat	accgtcaagg	tttgggtcta	64920
actcgctaga	taattggctc	gattcctgaa	tatgacatta	ccccctgttt	tttttttttt	64980
ttttttccg	ttgtagatat	gggctgctac	tgaaggtgga	aacttagaag	tgacataatac	65040
tcacaaagaa	gaatacgtac	agttcctagc	atttttgttg	aaatattacc	ctttctcttg	65100
attcattcta	tatgtaacta	agttctcaat	ggctatttgg	atatagggcg	tgctagctct	65160
ctgtggcgct	catgatgcag	aagccaagcc	agtattgcta	tgttcgtgca	atgacaattc	65220
gttgcaacct	tatgatttgc	catcgtaagt	ctttccaatg	ctggttggtt	catgagtata	65280
caattatggt	ttactttcaa	aagcttagat	tctgttctta	tgttaagggtt	acggaaaggg	65340
gcaaattttt	agctaagcaa	gagattcggg	caatccagat	aggccccggg	ggcatatttt	65400
tcaccgggtga	tggaaagtgg	caagttaaag	tatggaagtg	gtctactgag	tcgaccccta	65460
ttttgtcttg	aggcgcaaaa	cagagcccta	gttcttcacc	tttgtcaaat	ctcttcttct	65520
cggagtgtca	atagttcttg	tttgttttgt	tgttcgagag	attgtaagta	gcatcaaggc	65580
atctgtctct	ctggctccat	taagtctctg	cagttaaagc	agacggccgc	agagaagatt	65640
atggaccact	gattgtatct	actattatat	tgatttgatg	tcagagcaga	gacatggctc	65700
gatcagttcc	agagacgcgt	atggatctgc	ccacgttggt	tgacacttta	ctttctttac	65760
ttcttaggca	taagaaactt	ttgtccctct	ttgggtcaaca	ttcttgtcat	gtaatttatg	65820
gcatagatct	ttgtagtcat	gtttcagtg	aataaaagag	atgattttatc	ataaagagaa	65880
tttcttactg	tattcaaatt	atggtcaggg	tcgaatgttg	aagagaatgt	ccacaatgat	65940
ggtattaaca	gagtttccga	agcattctta	taaccttgat	agcatcactt	ccacgaccac	66000
gagcactggg	attttccaac	ttcctctaga	gagaaactga	gcctgtgggt	attgagcggt	66060
ttcacatcga	tcttctggct	tgccacagca	gtacgaggca	cagatgccaa	atgttcttgt	66120
agctgctagg	tacagagccg	aacgggcatt	gaaaggttgg	ccttttctatt	tgtgtgacca	66180
aagattgttg	aatgtttaac	acttttactc	aagatgagac	atggggatag	tttacattat	66240
ttatatagtt	ctgctggaaa	attaacaaca	agcccgtcta	gctcagttgg	tagagcgcaa	66300
ggctcttaac	cttctggctg	tgggttcgag	cccacgggtg	ggcgtgaaat	tacattttat	66360
ttttgtacca	tgatgtcagt	aagcccattc	tctaattgaat	atgaaactaa	acggagttat	66420
tttgtcaaaa	tggaaattag	agcatgcgac	atgatcaaaa	gtattttctaa	ttagggtttg	66480
tgttacgtat	ggatttctta	tttttgctgt	aaaggtgacg	tgtgggacta	cgtcactcca	66540
ccgaagggcc	tcgacgggtt	aatgtgaagg	ccattatgaa	tttatgatgg	ttatgatttg	66600
tgaccacccc	cactaatgta	cattattagt	aaatatctaa	atgtttatat	aactacttga	66660
cttctgccat	tgccgcctcg	tgatttgtct	ccttttgaaa	tcatttgtct	cgttgaaacc	66720
acactctcct	tttactttat	cttctccttt	tcgttgaaata	cctgaaatct	tccaactctc	66780
ctccaaattt	tttcagagtt	tgaagcatgt	cagaccaaga	ggctcctctg	cgtaatggag	66840
tagaacacaa	gattttcgaa	gtacttccgt	ttgtggatga	tgattacggg	ggagtcactg	66900
tggagatgaa	aactcctatg	gatactaaga	atttcgttgc	agcgcttaga	gattcattcg	66960
agcagtgccg	cttacagggt	tgtgttggtg	cgagatcaca	tgcatctctg	tcttcttgag	67020
tgagcgagcg	gttgattctg	taaaaccttt	ttgtttgttt	tttgttgtca	gggtaaaaag	67080
ggagtctggg	tgaacttgcc	tctctcacac	gtaaacctcg	tggaaaccgc	ggttaagggtc	67140
acatatcaga	ttaaatttga	ttcctaagtc	ttgcatatta	acgttactta	attatcatct	67200
tttgtaatt	agatgtcatt	gtcttatcta	ttgtataatat	tagtattaag	atgaatctct	67260
tttgtaacct	ggacataatt	tagtttttgt	tttaaaaaga	aaatcttttt	gggtttgaca	67320
tatttagggt	aatgggatgt	atagttgata	taccaagtta	tagctgcata	tccccatgta	67380
ttattacatt	gagggatgaa	caaactggtc	ccataaataa	tttgtgcatg	caggaagggtt	67440



tccggtatca	ccatgctgag	ccaacttacc	tgatgctagt	ttattggatt	ccggaagccg	67500
agagtactat	tcctttgaat	gcttcccatc	gtgttcgtgt	aggtgctgtt	gtcttgaacc	67560
ataacaaaga	ggtacttagg	agataggaca	ccattatatt	gtttattttt	gtatttccaa	67620
gtcataatat	tctaatacat	ctagaatggg	aaggaaaaatg	tactccatat	tccagcattt	67680
gcatcttaaa	attacaacta	gaggcagatt	cttgtgggtgc	aggaaaaata	cggttcatta	67740
tgcggatcag	gtatctggaa	gatcccaaca	ggagttgttg	acgaggtatg	tgttatctgc	67800
atgtagcaac	aagttttcaa	tcccacttta	tatgtttgct	gaagatttca	tctttaatat	67860
tttattttct	tgcgtctagg	gtgaggagat	tttcgcccga	gccattagag	aagtaaaaaga	67920
agaaacaggc	gtaagaagat	ccatatatct	taatgtaaat	cagtcaacca	tcaatatata	67980
taacctaacg	ttttcataca	tttatcttca	gatcgacact	gagtttttgg	agattctagc	68040
tttctggtag	ggatcatcgt	catatcctct	gctagtctgc	ttcatatatt	gtttcttgat	68100
actttcacgt	tcttatcctt	taagccttct	gtttgcagcc	aaacccacga	gtcatttttt	68160
gcaaagtcag	atttattctt	cgtttgtctc	ttgagacctc	cctccttcga	tattcaaaaa	68220
caggacttag	agatcgaagc	agctcaagta	aagtaacata	tacttcttat	tctgaactcg	68280
aaacattaat	tctctcgcaa	tctttcccga	atltgtcggg	tcttgaatgt	gcagtggtg	68340
cggttcgagg	actctgcctc	tcaacctatc	acacacaaga	acgatctctt	caaagatatt	68400
caccacattt	gctcaatgaa	aatggagaag	agctatagtg	gtttttcaaa	aaaacctatt	68460
acaactttct	ttgacgacaa	gttagggtat	ctctacttga	ataaacaaga	agatatggaa	68520
caacctattt	cttaaaacttc	ttccaagaac	atcgctcata	agagatcata	ttctgatcta	68580
aaacaatcaa	tcgatctgaa	tgaaaaacaa	atgcgatagt	ttcagatttg	ttctcctaaa	68640
agagatgctg	aattcttctc	cagcaagcaa	aaatacaaat	acagtaagaa	gagagggagc	68700
ttgtgacgag	gaggaattaa	gaagtgaaga	tcttggtttt	atltgatgat	ttgaaatcac	68760
tagaatccac	taatacaata	attaaataaa	taaatacata	cataccgaag	cacaattatt	68820
tgattgcact	caaatgaatc	attgtcttca	agactccttc	atccattttt	ctttaacggt	68880
ccattctaaa	ctcgactctt	tgaatgttga	tgattttgtt	ttaagttaatt	cttttgatt	68940
attccatcat	taattaccac	tttttctaatt	aacttggaaa	ttgatgttga	tgtgctttgt	69000
cttccagttt	tgaactaatt	aattttgagg	aaatagttca	agtattgtca	aataaaaacag	69060
atgtatttatg	ctctttcttg	tttaaaactcg	agaccattaa	gtagatttta	accacataat	69120
aaatctaatt	atatcataaa	attcaacaat	taagtggcat	ttggtaaccc	aaaatagaat	69180
tctactttat	gatctcattt	cttcattttaa	tatagaaatt	taaactctat	tctaattaat	69240
tattgtgaga	tagaattttg	taacttataa	ttagcacaaa	cctaaccat	aatcttgata	69300
catctacatc	gcctaaaccg	gaattctttg	tcacaacaaa	catattataa	agttcataaa	69360
tctcaaatca	aaacttagac	tgattccaag	attcatataa	aacaagtttt	catgctactt	69420
aacacattta	taatggcaaa	gggaaagaga	atgcaataaa	aaattttacat	ttaatctgat	69480
ctgtgacctc	tatctactta	acgaatcatc	aaccaccaa	acacaatatt	ttcccaagga	69540
tatttaataa	ttctatcatc	attatttcag	ttattatcaa	atgtgagtgg	cctgatcatt	69600
ttctgtattt	tttctttcct	tattcaatat	gtaattttat	atgtcaatgt	catatgtcgg	69660
ccgacccatt	cagcaaaaat	agacaataat	atatctaata	atltttgttg	ttttgctttc	69720
tacacattca	atacaagaa	aattccacaa	gtcacaaagca	caacacctta	ggaaactatac	69780
ggcgctagtt	acacgagcga	gaggcctata	tgccccacat	gtacgtgtgt	ttgtcgtgtc	69840
tattcatacg	cattacgtct	gatatactaa	gttataaccg	aaagtattcc	acaatgccga	69900
cctcctagag	aatgtttttc	ttttcttggt	ttggtatggt	ttcagttaat	aatctaatct	69960
atgttttcat	cgttttatta	ttattattaa	ttagggtttg	tatcggttat	aatcataatt	70020
tgctgatcta	atatattttg	atgtcttcat	taagttttag	atcaattttt	tttattaggt	70080
tcattcgaat	tcaagttttt	tcggatatag	acatagtgaa	accatttgaa	caatattaaa	70140
gcatagctca	gttcatatcg	gtttatccaa	attgaacacc	cttaagcaaa	actttgtaat	70200
taaggttcat	tgtattttgt	tgtctgccgt	ctactctttt	gcctttttgt	tattgtgtgt	70260
gtcatgttat	ttttttcaca	aaaagtagca	taacaagatt	gattttacaa	aatgtctttt	70320
atagctgcag	aaagatacaa	cacatgcaaa	cagtgaaaac	caatcatttt	catgagtcac	70380
caaatatgag	aaaatatcat	tttcagaagc	aaacagtcga	ttccccatta	cttaattaaa	70440
atcaactact	agccttggtt	aaaatgtgat	tttataaaaag	atcccatagc	ctacctaatt	70500
gaccaaattg	cggtattaat	ttaattgaag	agtggtgaca	gtgattgctt	attagtaata	70560
taccagctat	aacgaattaa	cgatacatat	ggcgttatat	aaacacaagc	ctcacgtttg	70620
agaaagaaca	aaacacattt	gtttgtgtag	ccatcacaaa	atctctctct	ccctacataa	70680
acacaagcct	cacgcctgag	aaagaacaaa	acacattttg	ttgttttgcc	atcacaaaat	70740
ttatctctct	ctttctctct	ttcgccagtt	ataatcagag	tcagtataag	agttacggtg	70800
tcgcggtcaa	acacagttgc	gtcttactgt	ctggtggcac	tgctgatcct	aacacttgcg	70860
ggatcggtta	aaaacagcaa	cggaggaggt	agcgagaagt	attatcgagg	aagaaaactgt	70920
gagggtttgga	gagggaagca	aatgatggag	aggccatgtg	aggagctata	cgtagtaggt	70980
gaaggagaca	cgcttcacag	catcagcgaa	aaatgcggcg	acccgtttat	cgtaggagcg	71040
aaccgcgata	tccatgaccc	ggatgatgtc	ttccctgggtc	tcctcatcaa	acttcacatt	71100
aacctccctg	aataagtcac	aacaagttca	agacatgtcg	ttttatgtac	attatgggtta	71160
catagttatc	tccctttctt	ttctttttat	ttcttggttg	gattttgaat	gaatttaact	71220
tttaacattt	ctttgttttg	gtacaaaacaa	agatccgata	cattggcatt	ggacaactac	71280
tctcttggtg	ttgttcttgt	tagaaaacttt	atltttgtcat	ttgtgtaaaa	agcggataaa	71340
gccaaagaga	ctaagaacag	agtaccgaaa	tttaaaaaaca	gagtcggaca	aggcaattga	71400
aaacagagcc	aaacatgaca	actaaaaacc	aaccgtcgtc	tcagcatgga	atctatttgt	71460
cagccaagct	ggaccaccca	tatatagcta	ggtaagagtg	aaaatgacgt	ttttggcaag	71520
taaattggat	ttgcttggca	cccttacaat	ccgaggctac	taccacttcc	atctataaga	71580



tgaagatttc	tcaaacttta	gacaaaccaa	agaatatttc	gagctataca	ataatttgat	71640
tttccgatga	cctcgtgaag	gcatggccgt	gccaaagctat	tcgggggatg	agaccgggtcc	71700
gtccccgtctc	aatatatagt	ggggtctcta	ggaaaaaaca	aacaaactaa	aaccctttga	71760
taaaaaattt	ttttttgtaa	acattggggcc	ttatcattaa	gaaagttttt	gaaattaata	71820
ttggggcccat	gacatatttg	aaattaatat	tggacccagt	aagattatct	ctatgactct	71880
atgcatattt	gaaaaataaa	gagtgtacaa	gaattctcta	caatatttaa	tcttttcttt	71940
cttcttctga	aaagattatt	ttactatttt	tatacattgt	ggaatgtttg	agtattcttt	72000
tcataataat	gatatagtca	aactttgtaa	catcattgat	atcatggatt	taactccaca	72060
cgcgaaattt	acgtacgaat	gtacctttgg	gctattaatt	ccatgcattt	aatagttttg	72120
agtattcata	ataaataaca	atgaattttt	actaaagttt	tggatatata	ccatatgatt	72180
atgtgaaatt	gaaggattca	aaatgaatat	ctaatagact	tccggaaaca	aattaattta	72240
gagattaaac	ttactgaaat	attagtagtc	tttataaatt	caaatttatg	ggtaggttac	72300
ggccaaattt	gttattcggt	agggtcacaa	cgcagacgct	gttaaaaaat	agccaaagcc	72360
agctcttcat	tgccgcacaa	agctaacaga	gtttgcgttt	agaccccaaa	gcgacgtagt	72420
ttctaccggt	tcctgcacga	ggcgctctac	gatttgccgc	tcaatctctg	agacgacct	72480
ttcctcttcc	tcttcaagtt	tgttcatccc	cggacacatc	ttttcggttt	ctcctgcgtt	72540
gattatggtc	ggagaaatgg	tgttcgaatc	gtaaaaattg	gaacttgacg	gttcttgagg	72600
aagcttcttc	tcgtacttgt	acatcttctg	accagagcat	atcgtcgcac	ctgccttctc	72660
ctccggttct	tgagctcttt	tcactcttaa	aatttgaaaa	caaactcactg	cgtaagactg	72720
cttaccacgt	gtttgtgttt	atttcttcaa	tgagagctaa	acaaagaaaa	gttgatcctg	72780
tttccgagga	cgttctgtgg	cagagaaagc	tgatgatgtt	acatagattt	tcttgcatgt	72840
cttcttctct	aaaagatcac	atcgattaga	tctcgagtgt	gttgatactg	gtgtgagcac	72900
ctttctctgc	ttgtttcgat	tattgggtgt	tggatgagga	gagaattttg	atttactctc	72960
tgctttttcc	catccgctaa	taggtcttag	tgactgttga	ttctcttttg	aaaggggtat	73020
taccgttgct	ggttgctgat	attgtcttaa	cacaaatgca	ggattagtgc	ttgttgcctt	73080
ctctttctgt	gaaatcctgt	tttggtctgc	tcctcctgcc	cttttcttct	caagcaagtt	73140
tgttacatcc	atgccaaatt	ttctgggtgt	gactctcttt	tttggttgtt	tcactatctg	73200
tctcccacta	tatctgggac	ttggactttg	ctcatcttgt	ttcaactctt	tcagcctcgt	73260
gcgtacaaac	tcttcatgct	tattgtttct	tctgttttag	tcaagagaga	ggcgatgatt	73320
ttcggaaatca	gaggagatcc	tagggctcgc	aggtaatgat	cttgtccctg	agccattccc	73380
ggagagtcga	tgtcctctta	ctccattcct	tggatgatca	gtaagctcca	agttatcagg	73440
aagaagatca	agaccatga	gtctagccac	aacgttcggt	gtcttggtgc	gaggttaagtt	73500
gcaattatgt	gaaggtgtat	caacgagaag	acctctaagt	gttgactttt	ttccgcccac	73560
ctgcaattga	attctcactt	ggctccatca	atgaagcaac	ttcaaatgta	cattgaagtc	73620
atataattgt	acttacagag	atgttcaagc	cttctctttc	cagcttgtag	ttgggtgata	73680
atggagactc	ctctgataag	tccaagctgt	ttcgtggcgc	caccaagctg	acaagtttca	73740
gtagcataac	attcctcact	cactgtcttg	caaaaagctc	ccaagtcctt	tatctataga	73800
gagatagaga	tagcacgtac	ctttacgagt	tctggaggga	gaatcaatac	taggttggtg	73860
gtgatgatga	tgacgtgaag	gaaagtaaaa	atggtggaaa	tgaaaaaagt	ggtaaaagtgc	73920
agtgacgcag	ccattagctt	cattggagtt	tttcttgctt	ttagaggaac	aagtggatct	73980
tcctccattg	taccactctc	ttcccatttc	tgtaaagaga	aaagcctgtc	tctaacgtat	74040
aatattgaca	agtggaaggc	gaaaaatgga	ctgacaaaaa	aagaaagaag	aggttgaaga	74100
acaaaaatctt	tttttgcacc	agcaaaaaag	ccaaatttga	aattttatgt	ttttggttcc	74160
tgacccgaga	gagctatcgg	aagctgcagc	actgcaactt	tatctctata	ttgcattgat	74220
aatcgagcag	agggtggtga	cagaaaaata	ttttaaaacg	tgacagtaat	aattaaaaag	74280
ataaactgta	ctacaagtaa	ataaatgcac	ggtgagatga	tgatatttag	ccacgcattt	74340
tccttgaaaa	cagacagctt	gagtattaca	gtatgattcc	aaccacacca	tttcttttgg	74400
ggttttcaag	tttttgaaact	ttacaaatta	agagagaact	taaggttgct	tagattttct	74460
cttggggatt	acaattacta	gaagaatatt	cttatgaatc	gtgagttagt	agcttagaaa	74520
gttacagctt	ggccacatgt	ttaatgcaga	ggttccatgt	ctttgcattt	actaggactt	74580
gtccttgctc	gctattattt	gctcagtttc	aaatttcaac	caatttttta	gttcaattcg	74640
ctcaagattt	atgttttacgt	attttacatg	caatacatgc	atttttagaca	aaataaaaaat	74700
aatggaggaa	tctcatgtta	gacctcaaac	taattcacat	agtttttact	ttgtagccac	74760
tatatgaatt	tcacagtggc	cgaagagaag	atgctagcag	aaaattaaac	aatgggtctgg	74820
aggtttaattg	ggcctgtggg	ttactgtgat	ttggtaggct	taataaatcc	aaaagcccca	74880
tagctcaaac	tcattatgga	cgttttgggt	gattttctgaa	acagaggaag	acgcatatgc	74940
taactctatc	ttagaattgc	aacatccctc	tacagcttgt	gaactcgttt	tgttgagtgt	75000
tttacgcgtc	aagaatcaaa	cttgggtttt	attggtttgc	gaattttaat	tgattttagag	75060
attcaaacaa	aatcttatgt	tattagatca	ttgattttta	aacttttgtt	gaaatcaagt	75120
cttattcatt	taactaatga	ttcctaaatt	attaactgag	tcgatattat	tcgtttaata	75180
attgaataac	ttattactaa	cagtatctac	tatctacgtc	tcgtcccttc	ctccgtacgt	75240
actatcataa	ataatcttct	atgcgctttg	agtggtaagg	gtcagtgact	tagttctatt	75300
catattttta	catgctcatt	tgaattttgt	tgaagaagacc	aacctttttt	ttcttttctc	75360
attagaaaaa	ttaacgtgca	gttaatagtc	tctccaagaa	acgattatat	atacagcaaa	75420
cttaatcgct	ttatttggac	cacttgcact	tttgaatttc	ggttcatgtg	cttttagtatg	75480
taatggagtt	gcatgaaact	catgccaaaga	aaatgttttg	agaagtaggc	taggcgatgc	75540
taattaaaaa	aaaagaaaga	agacaatgaa	cctcattttc	tcatatttag	taacagcctt	75600
gtgattcttt	tatggatctc	atggagtaag	tattgtctact	tgggtgctgt	gagctatttg	75660
aatccaaatt	aaggatcgaa	ccaattcagg	acttaacatg	aaactagtcc	tagtaaaacta	75720

aaaatggttg	atggaaaagc	tgaactatgc	caagaaacga	atggttggtg	caatcataga	75780
gtgagtatca	tatacttttc	tgttttacgt	atgctttgct	aatgtaccac	acagtataac	75840
ttattgtttt	ctactgcttg	ttattggagg	ccaccacaga	acttaacttg	tctctattag	75900
cttgctcttt	tactatactc	attgttgtat	tttcctcgta	cgagaccaag	tgaatataga	75960
ggtgcataca	gtacggacaa	gcttttttgg	atcttttgac	tgaccagttt	ccatgataga	76020
aaccatctcc	caatagcatt	ccagagacca	ctctatatgg	tacaagtaag	atatccatta	76080
taacccca	cacatttcat	ttccattgtc	tttttcttcc	acgaatatag	aaagtgaana	76140
agaggagaga	acaacctaga	aatccatttt	caaggtttcca	ttatttttct	tgattttcctt	76200
acgcattaat	taattatact	gtgtctagact	ttgtgcgga	cccatttact	cataaaaaaa	76260
ctttcaaaac	ttacacacca	atgggaaact	tgtgttaaag	aaaaacaatc	agcctatata	76320
tataactaga	aaaagtaaca	aattaatttt	taggtttgtg	gataaaaaac	ctcgaacata	76380
ttttgatgaa	aggaaataaa	aagtaatatg	ttttaagtta	acattgttaa	accgtagata	76440
gaaaacaaaa	caaatatcgt	caaatacatt	ggtttgatgc	tttgtatata	ttctcattaa	76500
aacccaccca	aaaacttaaa	aaaatatcgt	ataacatttg	acattgcctt	caatttttgt	76560
tttgtacatt	cgaactgtaa	aaaaggaatt	tcactcattt	ggtcatcaca	aattatgtca	76620
tcgttactgt	ttcgtgatct	caaatagaat	aagctactgt	atagcttata	cttataactt	76680
ataagggatt	taacgaattt	agagttgaga	ctttctgaaa	acaaatattt	ttcgaataat	76740
aaagctacaa	catctcttct	aggttttttt	ggcgtatgat	aacccatcat	cctaactttg	76800
tattcttatt	tttataagta	cttttagtcac	atttataggt	atgttcttag	gttgtcagta	76860
tatcaaatca	gtaatttgta	tacacacaca	ctttataaaa	tgaatggaaa	tcctatatat	76920
gatgagagac	ttcaattttc	taagtctgtg	actaatgcat	aagaaaatta	tgtactgtgt	76980
aatcttgatc	gtacacttgt	tccttcttgt	catttatttc	aagtaacagt	ttaaaagttg	77040
catgattgag	ttgaggaact	gcacatgtgt	tgctcctctc	tgttttcaac	gacagaaaagc	77100
tttttagcgtc	tagagtgtca	ttattttacaa	ttcgaatgct	agaaattatt	ttcaacctct	77160
agtgttccaa	tggttaaaga	tcgttagttt	ataacggata	gagtgataga	tctccaattg	77220
gcttccatgt	ttttttattt	ataaaaaattg	tgtttccatg	ttagtaccca	gaaatgtgtt	77280
attacgatct	tgagctgaga	tcgagatata	tatataggtg	tagtaggaga	tcggttagta	77340
taactgttag	gacgtgagat	ctttaatctt	tatggcatat	tacatgatct	tcgtaacttt	77400
ttttttgttg	tcgtaactag	agattttctt	catgcttttt	tgtctccttt	ttgtttttat	77460
agatctcttc	taaatggcat	ataccaaat	accaatttta	aacagtgaga	catgctttca	77520
gcgtcattaa	ttaatggggg	atggagtaat	gtccttttct	aagaaaatca	agagaaaagaa	77580
aacagatcta	tttcagatca	tctatgcccc	cccagtttct	agtgtgctta	ggtaagagat	77640
caatctctcg	ctcctcctcc	atctaataat	gtcagagaca	ggacataaaa	agcatgaact	77700
ggttatagtg	gatcaataag	aggattttta	ttggagctac	tatttgcgac	aaaaacccat	77760
gtctaatggg	tgctctttat	agggtccagca	ttgttgggtc	cttcaatatc	tctctctctc	77820
ttctagtaat	taagaaagag	atagcacttg	agctcatatt	aaagaagatg	aacacatttg	77880
gtcggccccc	accttcttta	tagcagccct	acttagttgt	tagtacttct	ttgtcccagg	77940
attggatcaa	atgtataaga	ctataagagg	ctcaatgaaa	aaaatggctc	taattttttg	78000
tttaaatggg	gatttaaaag	ttactaaacc	ttatttttca	atttttattc	cggttaattct	78060
agatgtttcg	aacctatgct	atatctatct	tagagccgga	atcaaccttt	ttaaaaatat	78120
ccctccaaat	ggaaaccgaa	ctcttgcttc	actacgttat	tgcttactt	ggttcggtaa	78180
tgtttttttt	catcaatact	aaaactcttc	ttccaaaaat	taggctctta	tcataccgac	78240
tctagcattt	gcaccttatg	ccgacctatg	tcagtgtctc	tctttaattg	atcacataaa	78300
ttcattagtt	tattccatca	gatttaacat	atgtaaaata	taagacatag	tgaaacaaaa	78360
ttctaacata	accgaaccaa	actgtaactg	aaccaatcaa	attgaattca	acaaaaatta	78420
aaattttata	taatgtaagt	aatagtttta	aatgggtta	aaacaaaact	aaatcgaact	78480
ctatctgaac	ccaaaaacaa	actgaaatat	acacctcaca	ctagagatat	gaacagctct	78540
aaatatagtc	caaaattttt	atatcttact	aaaaattagt	tgattaggtt	caaacgtaat	78600
aggaggatag	aggaaaacaa	aaattcaccg	aaagaaagaa	aaaaaaaaaac	gagaaagtaa	78660
actctagaga	gagggagaaa	aacagaataa	caatgtggaa	ccaacacttc	catatacatc	78720
caaagaacct	tggaagctc	ttttgtcctg	ccaactataa	aaacagaccc	cccacaaaaa	78780
agatccacag	tttttttttt	ttttgttta	aaatacaagt	attatcttat	ttgtttttct	78840
tttatttgct	ccaattccca	atgaatagat	tagacaattct	tggtttgttc	tgtaccccg	78900
ttttctaacg	tcttattcgg	ttaagcggta	gcaagactaa	tacgagtccg	ataaataatt	78960
aactcccttt	agtttatcat	cagtcataag	atcttatgag	ttagtgttca	tgttatatat	79020
catctttact	atttagtttt	cttttctttc	caaaggatca	tctaaaccga	aatttgacaa	79080
atcttttaac	ccatcgataa	tctgattatc	ggattttcta	atgaatcaca	aatttaacat	79140
cacttttgaa	tattgttaaca	acaattttta	cttttaaaac	ggaattgaa	cctaatttct	79200
caatcaccca	gccactaagt	aatcttgtaa	aacattatta	accattttaa	attaataatt	79260
ctattagact	gattttataa	aattataata	tgagtagata	agaaatatgt	attttatcta	79320
acaatgttaa	aatataagta	tcagtaata	tgaatgtaaa	ggttcttatg	ataaaatatg	79380
gataaattac	atatttagtc	agaaattatt	aaatttatca	tttgatataa	ttattttaatt	79440
aattaaatta	ttttgattat	gtaaatgatt	taaatgcaa	ctacgtaatt	tttttttatt	79500
ataaatcttt	aatttcaatt	caagaaatat	ttttatatga	aaattaaaaa	ttgtgcaggt	79560
tttgaatgaa	tggttagagc	tataatcttt	aaggtatcct	tatgtatgga	gaaatagaag	79620
ggagttaatt	caaataaaaa	caaccaccta	tgactagtaa	gctatacatt	attagtggaa	79680
tagtggtaat	gttccatgtt	gccacacaac	aaacatgtag	ggaatcgata	aaagacagtt	79740
ttcaacattt	tcaccatttc	agttaaaaaa	aaaaatagct	ttgcgtacaa	aaaaaaaaaga	79800
aagacaaaag	acaaaaaaaa	aaaaactaat	caatatgtta	attagattta	taataaaaaa	79860

tttaggaatg	attccaccac	tgtttttgtc	aacatcattc	caccacttgt	tttagcgaat	79920
ttaactccat	tacagtgaat	aatctaataa	tcctttactc	ttttggatta	tatatcactc	79980
gtggcaaaag	tattgataac	tccattacag	actatagtat	tgtactacta	gaaaacaaaa	80040
acaacaaaaa	aagaagtgga	caacactata	cgatcgactt	aaatgcttgc	ttatataaaag	80100
actaaaagga	ccattgggtc	ccgtatctcc	tcgcaatact	actactcact	ttactataat	80160
ctctcaaaat	ggccgtaagt	ttcgtaacaa	catctcctga	ggaagaagac	aaaccgaagc	80220
taggccttgg	aaatattcaa	actccgttaa	tcttcaaccc	ttcaatgctt	aaccttcaag	80280
ccaatatccc	aaaccaattc	atctggcctg	acgacgaaaa	accttccatc	aacgttctcg	80340
agcttgatgt	tcctctcatc	gaccttcaaa	accttctctc	tgatcc		80386

//